ORDER NO. MD0104057S1
A6

Service Manual

DVD Home Theater Sound System

Supplement

SA-HT80

Colour
(S)... Silver Type

Area
(P)... U.S.A.
(PC)... Canada

Subject : Addition of DVD Parts Location and Parts List

Please file and use this supplement manual together with the service manual for Model No. SA-HT80, Order No.MD0002011C1.(P,PC)

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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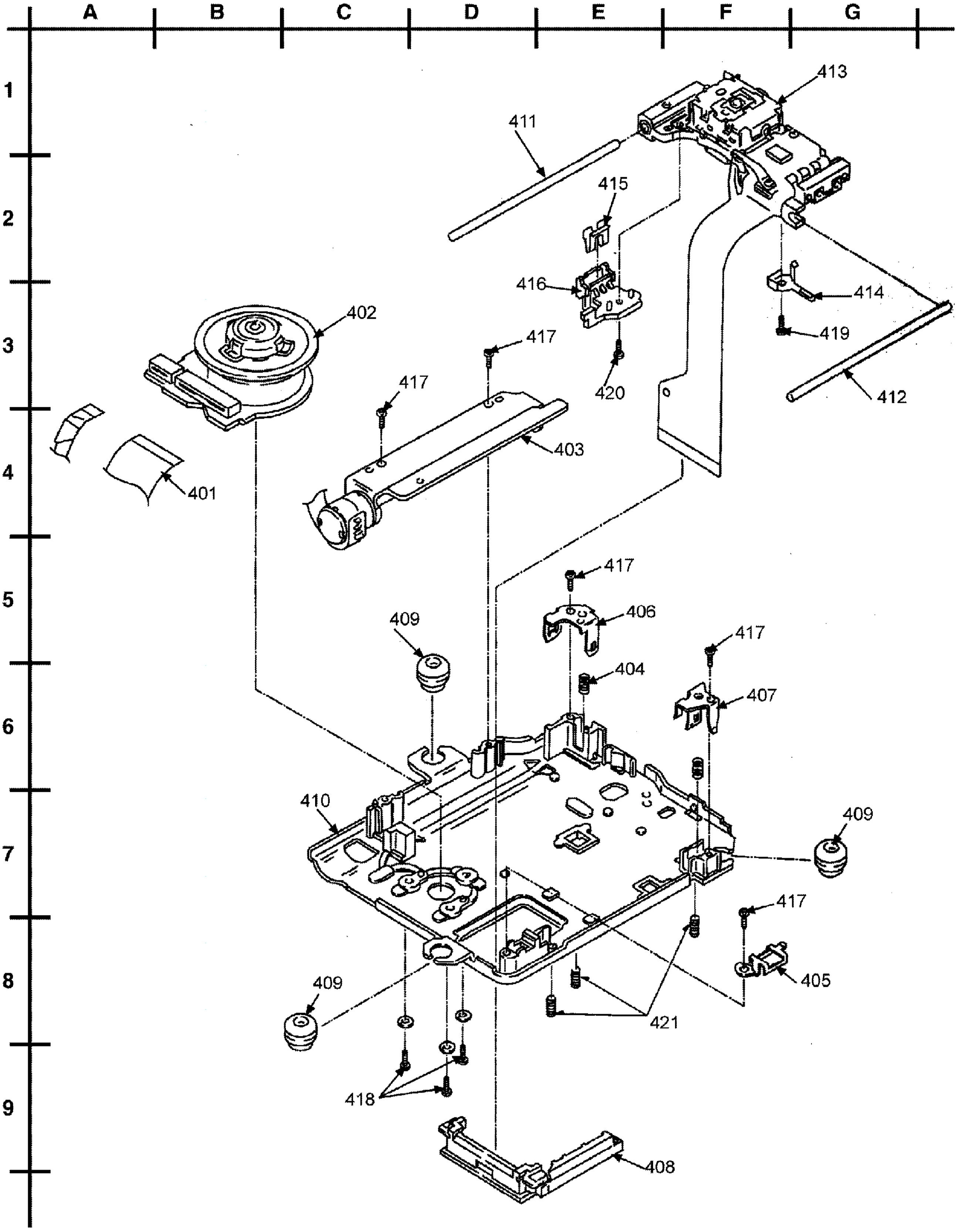
1 Traverse Parts Location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1.1. Traverse Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)

  Parts without these indications can be used for all areas.
- [SPC] indicated in the remarks column indicates source of supply.

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE	
401	VWJ1277	SPINDLE FFC	[SPC]
402	VEM0665	SPINDLE MOTOR	[SPC]
403	VEM0666	SPINDLE MOTOR	[SPC]
404	VMB3278	SPRING	[SPC]
405	VMC1487	SPRING	[SPC]
406	VMC1488	SPRING ORNAMENT	[SPC]
407	VMC1489	SPRING ORNAMENT	[SPC]
408	VMD3261	HOLDER	[SPC]
409	VMG1166	FLOATING RUBBER	[SPC]
410	VMK0474	TRAVERSE CHASSIS	[SPC]
411	VMS6471	SHAFT	[SPC]
412	VMS6472	SHAFT	[SPC]
413	VED0402	OPTICAL PICK-UP	[SPC]
414	VMC1491	SPRING	[SPC]
415	VMC1490	SPRING	[SPC]
416	VMD3260	NUT	[SPC]
417	VHD1224	SCREW	[SPC]
418	VHD1295	SCREW	[SPC]
419	VHD1057	SCREW	[SPC]
420	XQNQC17+3	SCREW	[SPC]
421	XXE26C6FN	SCREW	[SPC]

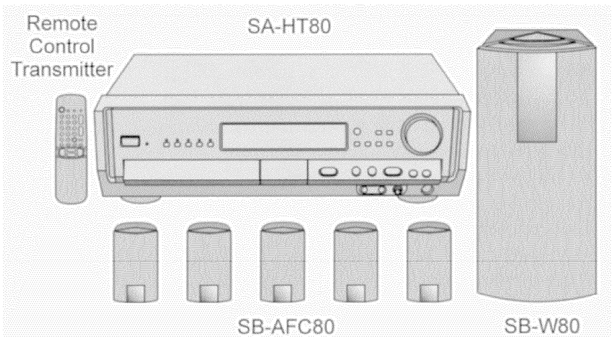
ORDER NO. MD0005070C3

Service Manual

DVD Home Theater Sound System

SA-HT80

Colour
(S) ... Silver Type
Area
(GC) ... Asia, Latin America, Africa
and Middle Near East
(GN) ... Oceania
(GCS) ... Singapore
(GK) ... China
(GT) ... Taiwan
CD SECTION :
DPT-3ATU-AD TRAVERSE DECK SERIES


Remote
Control
Transmitter
SA-HT80
SB-AFC80
SB-W80

SPECIFICATIONS

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AMPLIFIER SECTION

RMS TTL POWER OUTPUT	300 W
(10% total harmonic distortion at 1 kHz)	
FRONT	36 W per ch (6Ω)
CENTER	36 W (6Ω)
SURROUND	36 W per ch (6Ω)
SUBWOOFER	120 W (6Ω)
PMPO TTL POWER OUTPUT	1800 w
DIN TTL POWER OUTPUT	220 W
(1% total harmonic distortion at 1 kHz)	
FRONT	26 W per ch (6Ω)
CENTER	26 W (6Ω)
SURROUND	26 W per ch (6Ω)
SUBWOOFER	90 W (6Ω)
Input sensitivity/ input impedance	
AUX	250 mV, 10 kΩ
For GC/GCS/GT/GK areas	
MIC	0.7 mV, 600 Ω

FM TUNER SECTION

Frequency range	87.5 - 108.0 MHz (50 kHz steps)
Sensitivity	
For GC/GCS/GK/GT areas	1.8 μV, IHF
For GN area	16.3 dBf (1.8 μV, IHF)
S/N 26 dB	
For GC/GCS/GK/GT areas	1.5 μV
Antenna terminals	75 Ω unbalanced

AM TUNER SECTION

Frequency range	522 - 1629 kHz (9 KHz steps) 520 - 1630 kHz (10 KHz steps)
Sensitivity	
S/N 20 dB at 999 kHz	500 μV

DISC SECTION

Disc	
DVD	8 cm/12 cm single-sided, single-layer 8 cm/12 cm single-sided, double-layer 8 cm/12 cm double-sided, double-layer (one layer per side)
CD/V-CD	8 cm/12 cm
Video	
Signal system	NTSC/PAL (depend on disc format)
Output level	Composite video 1 Vp-p (75Ω)
S-video Y	1 Vp-p (75Ω)
S-video C	0.300 Vp-p (75Ω/PAL) 0.286 Vp-p (75Ω/NTSC)
Audio	
Sampling frequency	
CD	44.1 kHz
DVD	48 kHz/96 kHz
Decoding	16/20/24 bit linear
Wow and flutter	Less than possible measurement data
Digital filter	8 fs
D/A converter	Delta-sigma DAC
Pick up	
Beam Source	Semiconductor Laser

Wavelength	665 nm

▌GENERAL

Power supply	
For GC/GCS/GT areas	AC 110 V/127 V/220 V/230-240 V, 50/60 Hz
For GK area	AC 220 V, 50 Hz
For GN area	AC 230-240 V, 50 Hz
Power consumption	
For GC/GCS/GT/GK areas	155 W
For GN area	178 W
Standby	
For GC/GCS/GT areas	0.70 W
For GK and GN areas	0.50 W
Maximum power consumption	
For GT area	448.8 W (10% total harmonic distortion)
Dimensions (W x H x D)	430 x 136 x 400 mm
Mass	8.7 kg

Note:

1. Specifications are subject to change without notice.
Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

▌System	SC-HT80 (GC) SC-HT80 (GN) SC-HT80 (GCS) SC-HT80 (GK) SC-HT80 (GT)
▌Main Unit	SA-HT80 (GC) SA-HT80 (GN) SA-HT80 (GCS) SA-HT80 (GK) SA-HT80 (GT)
▌Front, surround and center speakers	SB-AFC80 (GC) SB-AFC80 (GN) SB-AFC80 (GCS) SB-AFC80 (GK) SB-AFC80 (GT)
▌Subwoofer	SB-W80 (GC) SB-W80 (GN) SB-W80 (GCS) SB-W80 (GK) SB-W80 (GT)

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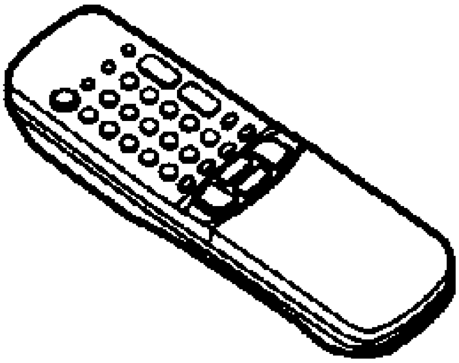
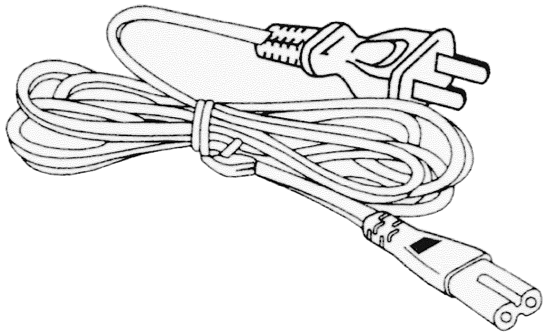
1. Accessories

Please refer to Accessories Parts List for part numbers.

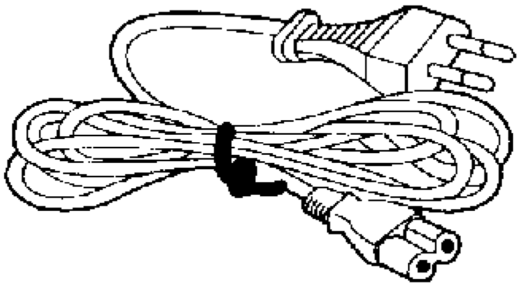
REMOTE CONTROL



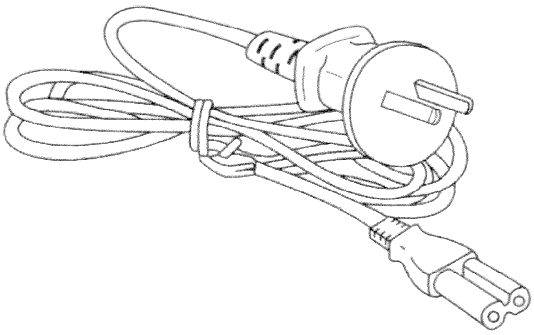
AC CORD (GK/GT)



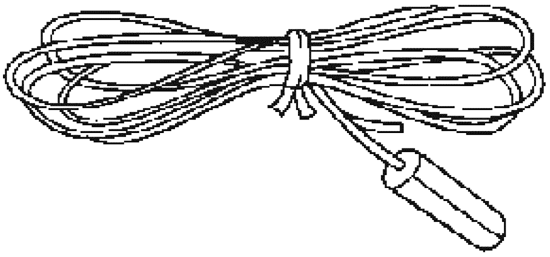
AC CORD (GC/GCS)



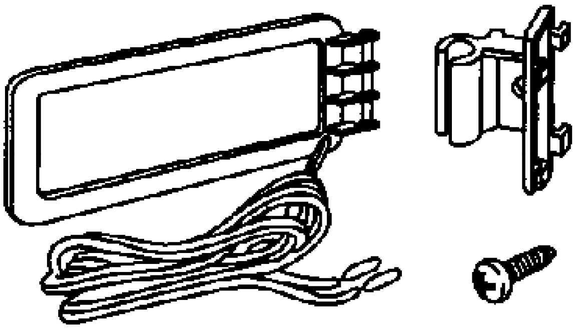
AC CORD (GN)



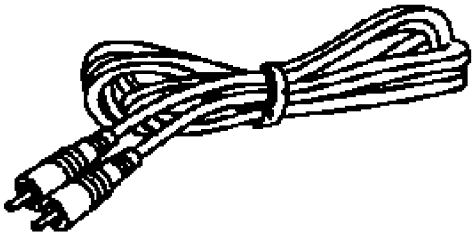
FM ANTENNA



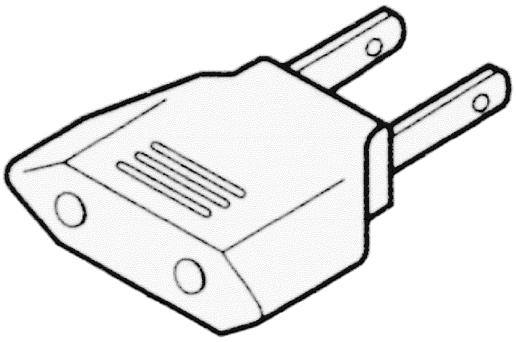
AM LOOP ANTENNA



VIDEO CABLE



AC CORD ADAPTOR (GC/GCS/GK/GT)



2. Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector. Use a minus (-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the "127V" position.) Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries; the correct voltage is already set.)

3. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C554~C557,C782 through a 10Ω, 5W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

For GC/GCS only

Current consumption at AC 220V, 240V, 50 Hz in NO SIGNAL mode should be ~850mA.

For GK/GN/GT only

Current consumption at AC 220V, 50 Hz in NO SIGNAL mode should be ~850mA.

4. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note :

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

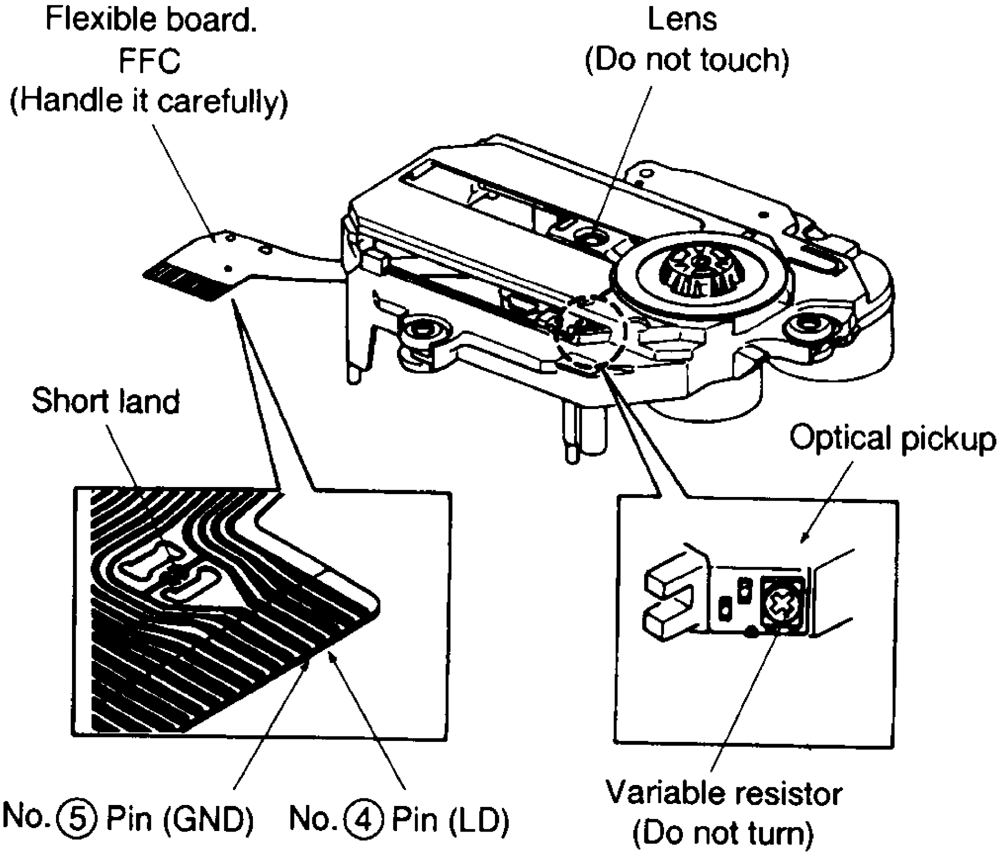
5. Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- **Handling of traverse deck (optical pickup)**

1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. The short land between the No.4(LD) and No.5(GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent damage to the laser diode.To connect to the PC board, be sure to open by removing the solder build-up, and finish the work quickly.
3. Take care not to apply excessive stress to the flexible board (FFC).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.



- **Grounding for electrostatic breakdown prevention**

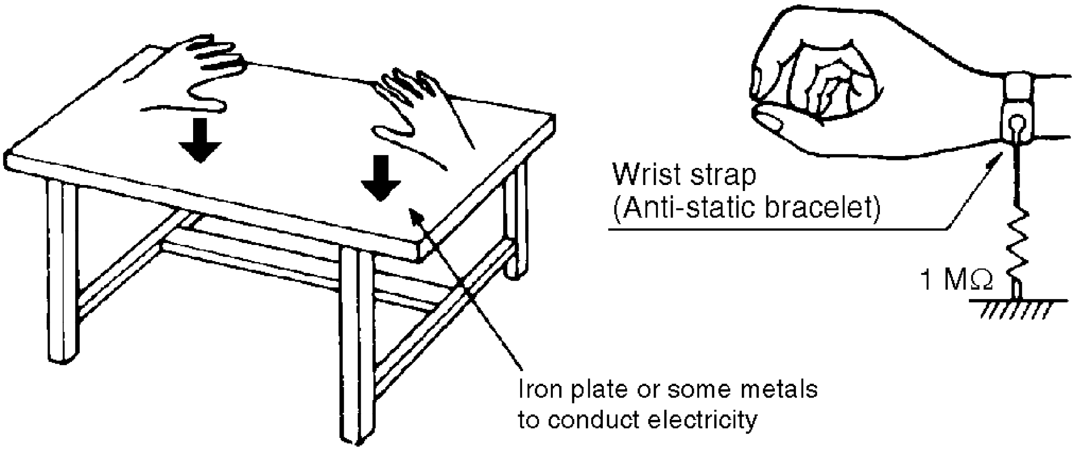
1. Human body grounding
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution:

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when Replacing the Traverse Deck:

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.



6. Precaution of Laser Diode

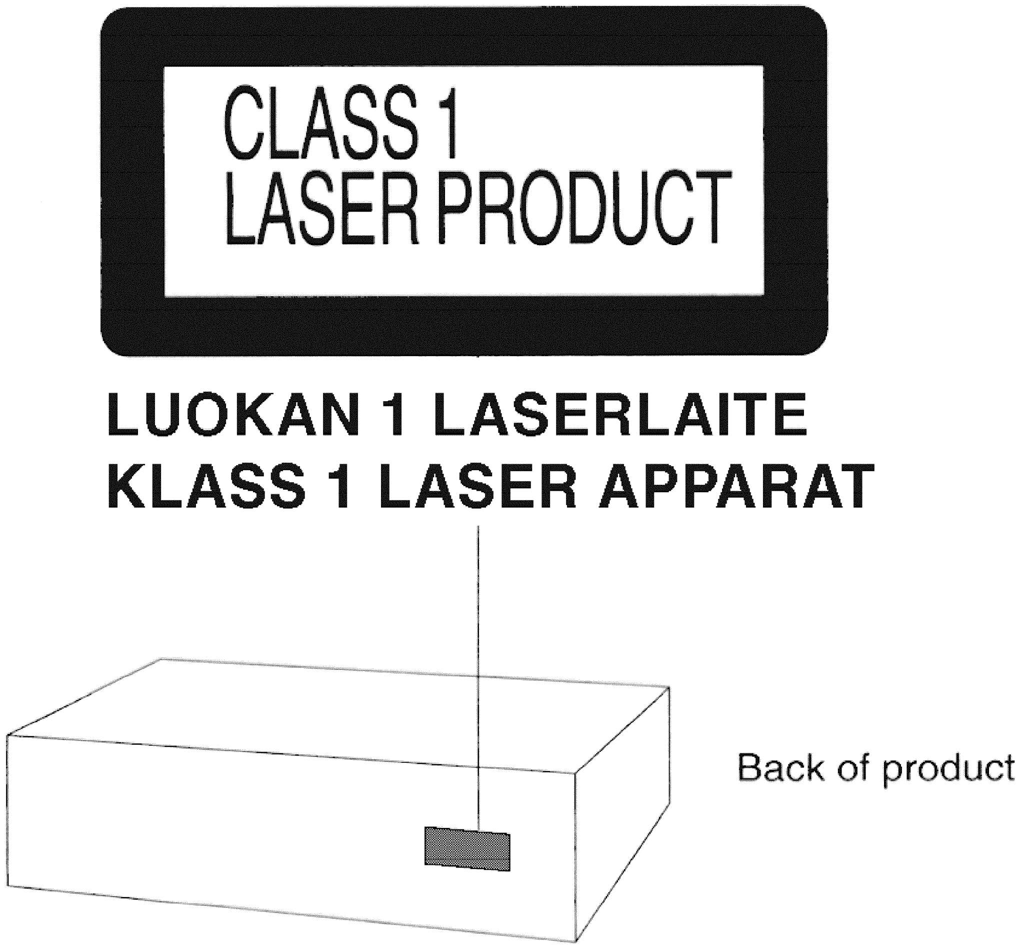
CAUTION :
This product utilizes a laser diode with the unit turned “ON”,invisible laser radiation is emmitted from the pickup lens.
Wavelength : 780 nm
Maximum output radiation power from pick up : 100μW/VDE
Laser radiation from pick up unit is safety level, but be sure the followings:
1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pick up unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.

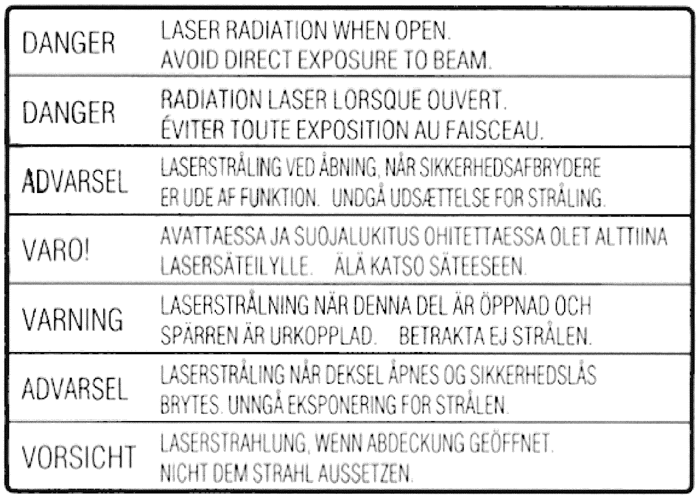
ACHTUNG :
Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.
Wellenlänge : 780nm
Maximale Strahlungsleistung der Lasereinheit : 100μW/VDE
Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:
1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken.
4. Nicht über längere Zeit in die Fokussierlinse blicken.
ADVARSEL : I dette a apparat anvendes laser.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

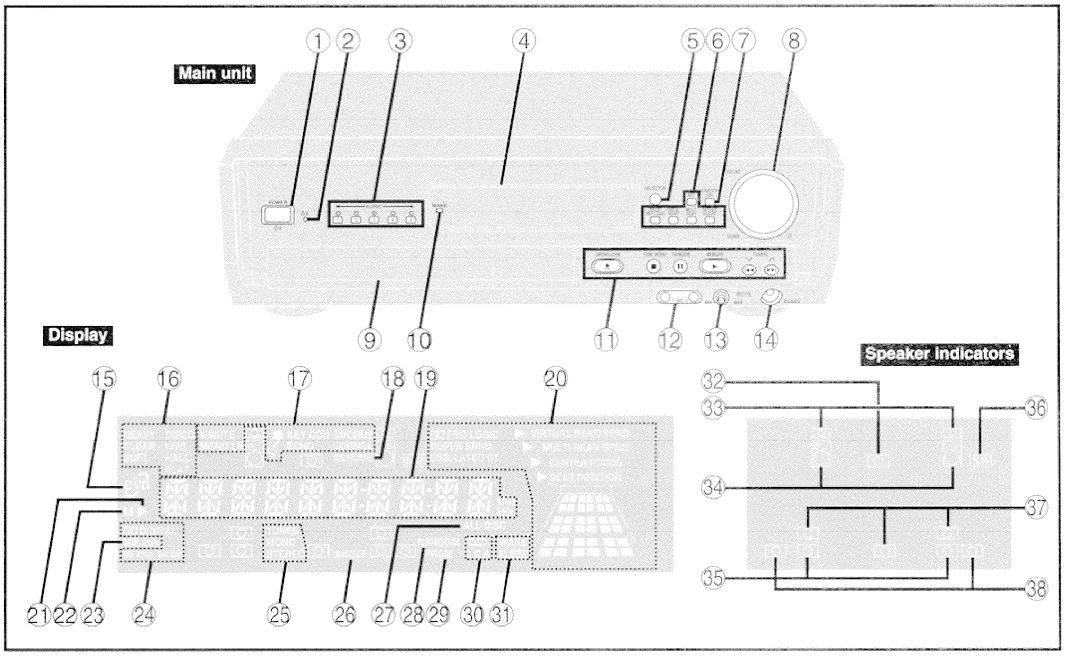
6.1. Use of Caution Labels


CLASS 1
LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
Back of product



DANGER	LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
DANGER	RADIATION LASER LORSQUE OUVERT. ÉVITER TOUTE EXPOSITION AU FAISCEAU.
ADVARSEL	LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

7. Operation Procedures



No. Name

Main unit

① **Standby/on switch (POWER, ⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② **Standby/on indicator (⏻/I)**
When the unit is connected to the AC mains supply, this indicator lights red in standby mode and lights green when the unit is turned on.

③ **Disc select buttons (5 DISC)**

④ **Display**

⑤ **Input select button (SELECTOR)**

⑥ **Sound field effect buttons**

⑦ **Subwoofer level button (SUBWOOFER LEVEL)**

⑧ **Volume control (VOLUME)**

⑨ **Disc tray**

⑩ **Wake timer indicator (WAKE)**

⑪ **Basic operation buttons**

⑫ **Microphone jacks (1–MIC–2)**

⑬ **Microphone volume control (MIC VOL)**

⑭ **Headphones jack (PHONES)**

Display

⑮ **DVD disc indicator**
Lights when a DVD is loaded.

⑯ **SFC mode indicators**

⑰ **Karaoke indicators**

⑱ **Resume indicator**

⑲ **General display**

No. Name

⑳ **Surround effect indicators**

㉑ **Play indicator**

㉒ **Pause (Still picture) indicator**

㉓ **MIX 2ch indicator**

㉔ **DVD disc signal indicators**

㉕ **Radio indicators**

㉖ **Angle indicator**

㉗ **All disc indicator**

㉘ **Random indicator**

㉙ **Program indicator**

㉚ **Repeat indicators**

㉛ **Timer indicators**

Speaker indicators

㉜ **Center speaker** (Blue)

㉝ **Surround speakers** (Blue)
Lights when VIRTUAL REAR SURROUND is on.

㉞ **Front speakers** (Blue)

㉟ **Surround speakers** (Blue)

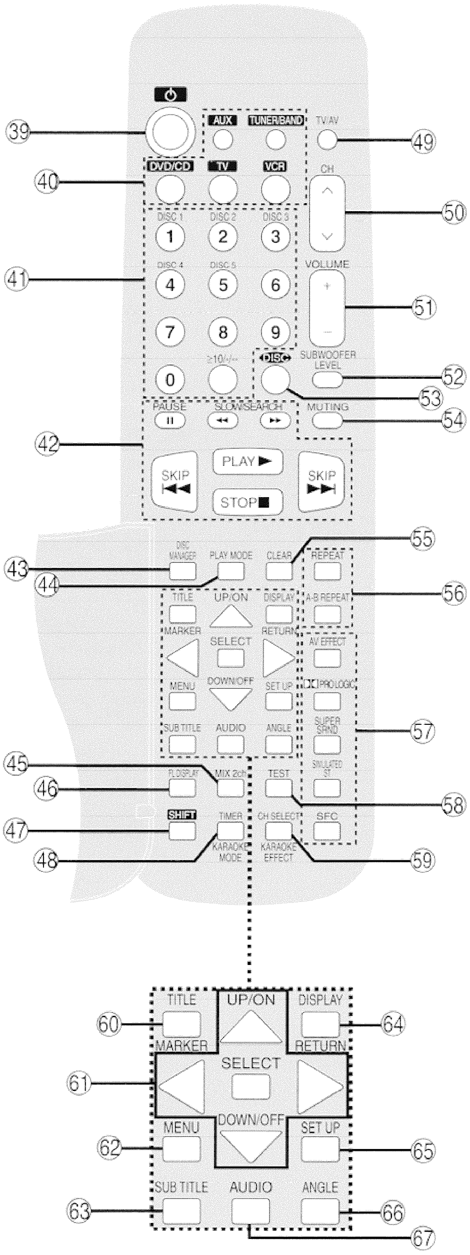
㊱ **Subwoofer** (Blue)

㊲ **Surround speakers** (Orange)
Lights when MULTI REAR SURROUND is on.

㊳ **Surround speakers** (Orange)
Lights when VIRTUAL REAR SURROUND is on.

Blue indicator:	Sound is actually coming from the speaker.
Flashing blue indicator:	A test signal is being output for the speaker.
Orange indicator:	Virtual speaker. Sound seems to come from the position indicated.

7.1. Remote Control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(62)
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(64)
(65)
(66)
(67)
AUX
TUNER/BAND
TV/AV
DVD/CD
TV
VCR
CH
DISC 1
DISC 2
DISC 3
DISC 4
DISC 5
VOLUME
1
2
3
4
5
6
7
8
9
0
≥10/-/--
DISC
SUBWOOFER LEVEL
PAUSE
SLOW/SEARCH
MUTING
PLAY
SKIP
STOP
DISC MANAGER
PLAY MODE
CLEAR
REPEAT
TITLE
UP/ON
DISPLAY
A-B REPEAT
MARKER
RETURN
SELECT
AV EFFECT
MENU
DOWN/OFF
SET UP
PRO LOGIC
SUB TITLE
AUDIO
ANGLE
SUPER SRND
FL DISPLAY
MIX 2ch
TEST
SIMULATED ST
SHIFT
TIMER
CH SELECT
SFC
KARAOKE MODE
KARAOKE EFFECT

No.	Name
㊴	⏻ button (⏻)
㊵	Input select buttons (AUX, TUNER/BAND, DVD/CD, TV, VCR) TUNER/BAND button is also used to switch radio bands.
㊶	Numbered buttons and ≥10/-/-- button (1-9, 0, ≥10/-/--)
㊷	Basic operation buttons
㊸	Disc manager button (DISC MANAGER)
㊹	Play mode button (PLAY MODE)
㊺	MIX 2ch down mix button (MIX 2ch)
㊻	FL display button (FL DISPLAY)
㊼	Shift button (SHIFT)
㊽	Timer, karaoke mode button (TIMER, KARAOKE MODE)
㊾	TV/video select button (TV/AV)
㊿	Channel up/down button (CH ∧, ∨)
(51)	Volume button (VOLUME +, −)
(52)	Subwoofer level button (SUBWOOFER LEVEL)
(53)	Disc button (DISC)
(54)	Muting button (MUTING)
(55)	Clear button (CLEAR)
(56)	Repeat buttons (REPEAT, A-B REPEAT)
(57)	Sound field effect buttons
(58)	Test button (TEST)
(59)	Speaker channel select, karaoke effect button (CH SELECT, KARAOKE EFFECT)
(60)	Title, marker button (TITLE, MARKER)
(61)	Cursor and select buttons
(62)	Menu button (MENU)
(63)	Subtitle language select button (SUB TITLE)
(64)	Display, return button (DISPLAY, RETURN)
(65)	Initial settings button (SET UP)
(66)	Angle button (ANGLE)
(67)	Soundtrack language display button (AUDIO)

8. Operation Checks and Main Component Replacement Procedures

"ATTENTION SERVICER"

Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

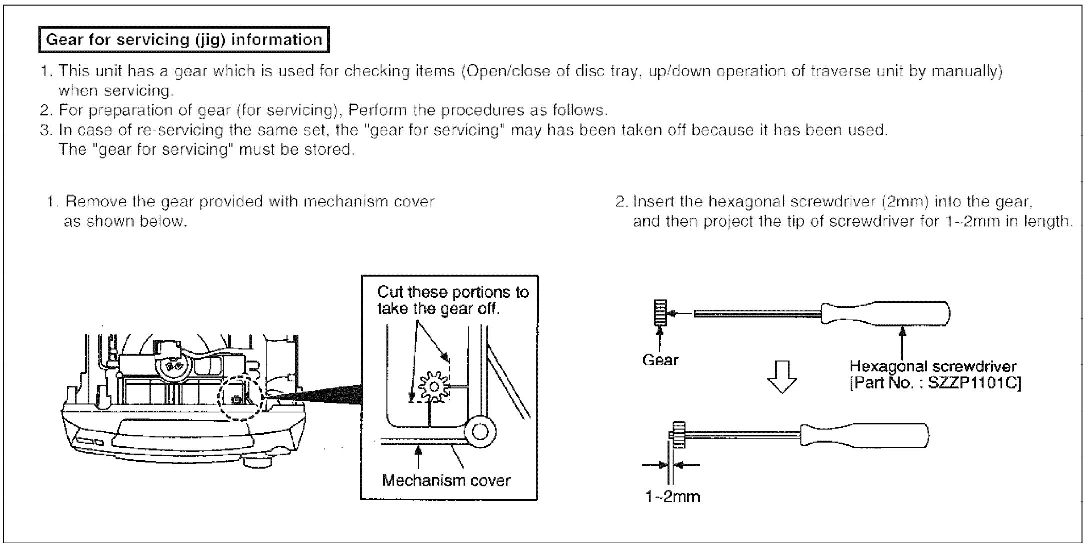
4. **Refer the Parts No. on the page of “Main Component Replacement Procedures”, if necessary.**

Contents

- **Checking Procedure for each major P.C.B.**
  1. Checking of the DVD module board and the DAC board. (Pg10)
  2. Checking the FL board. (Pg11)
  3. Checking the DSP board. (Pg12)
  4. Checking the DVD constant-voltage board. (Pg13)
  5. Checking the Tuner board and the Main board. (Pg14)
- **Procedures for replacement of main parts and disassembly/reassembly of parts.**
  1. Replacement of the Traverse deck (standard). (Pg15)
  2. Replacement for the Disc Tray. (Pg17)
  3. Disassembly and reassembly for the Mechanism Base Unit. (Pg19)
  4. Replacement for the Motor. (Pg27)
  5. Replacemnet for the Traverse motor, optical pickup and spindle motor. (Pg28)
  6. Replacement of the Power IC and constant-voltage Transistors. (Pg31)

Warning:
This product uses a laser diode. Refer to caution statement on page 5.

ACHTUNG :
- Die Lasereinheit nicht zerlegen.
- Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.



Gear for servicing (jig) information

1. This unit has a gear which is used for checking items (Open/close of disc tray, up/down operation of traverse unit by manually) when servicing.
2. For preparation of gear (for servicing), Perform the procedures as follows.
3. In case of re-servicing the same set, the "gear for servicing" may has been taken off because it has been used. The "gear for servicing" must be stored.

1. Remove the gear provided with mechanism cover as shown below.

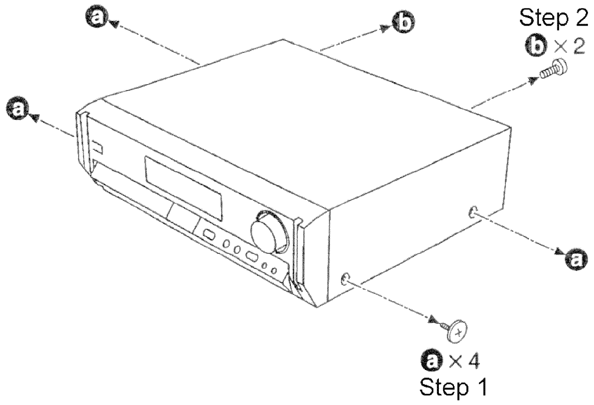
2. Insert the hexagonal screwdriver (2mm) into the gear, and then project the tip of screwdriver for 1~2mm in length.

8.1. Checking Procedure for each major P.C.B.

8.1.1. Checking the DVD module board and the DAC board

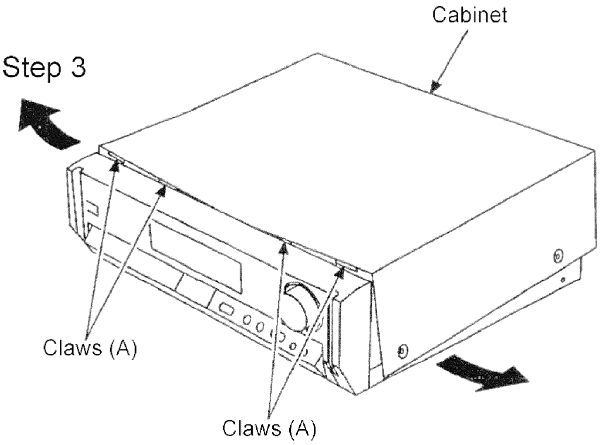
Step 1 Remove the screws.

Step 2 Remove the screws.



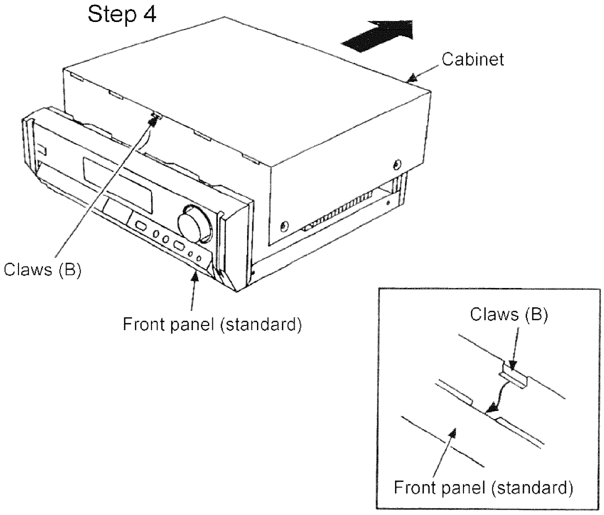
Step 2
b × 2
a
b
a
a
a × 4
Step 1

Step 3 Expand the both sides of the cabinet, and unlock the claws (A).



Cabinet
Step 3
Claws (A)
Claws (A)

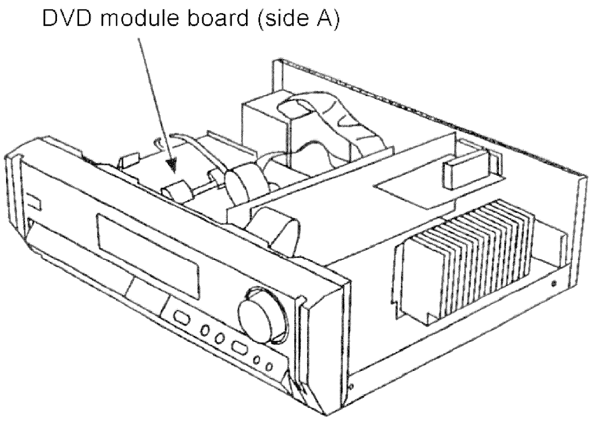
Step 4 Pull the cabinet to the rear direction of the unit.



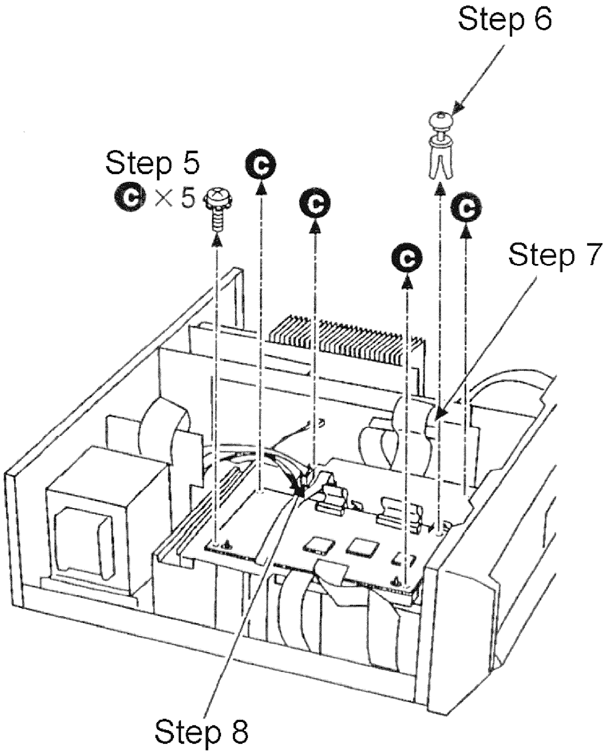
Step 4
Cabinet
Claws (B)
Front panel (standard)
Claws (B)
Front panel (standard)

CAUTION / When reassembling the cabinet, use the utmost care to avoid scratching the front panel (standard) with the claws (B).

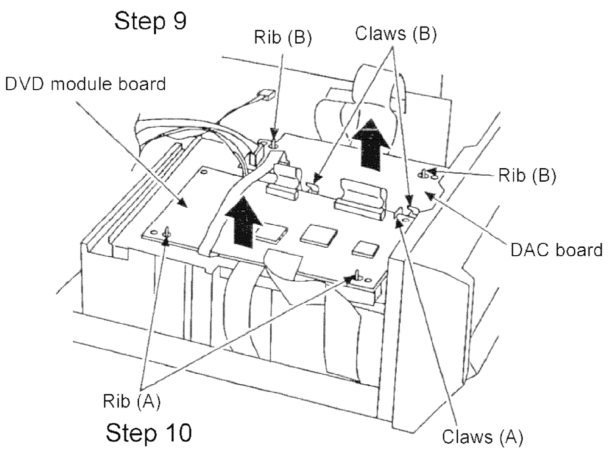
- Check the condition of the DVD module board (side A) as shown in the diagram below.


DVD module board (side A)

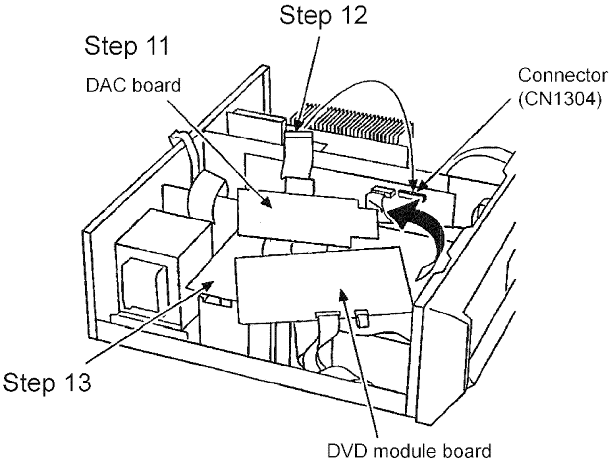
Step 5 Remove the screws.
Step 6 Remove the latches.
Step 7 Pull out the FFC cable.
Step 8 Remove the connector (CN1305).


Step 6
Step 5
C × 5
C
C
C
C
Step 7
Step 8

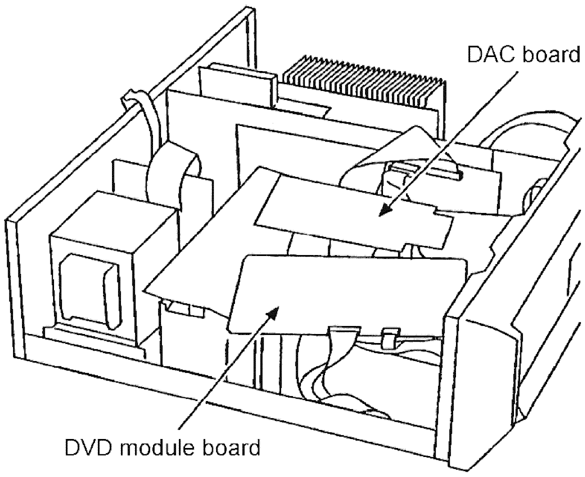
Step 9 Lift up and remove the DVD module board from the rib (A). Then, remove the DVD module board from the claws (A).
Step 10 Lift up and remove the DAC board from the rib (B). Then, remove the DAC board from the claws (B).


Step 9
Rib (B)
Claws (B)
DVD module board
Rib (B)
DAC board
Rib (A)
Step 10
Claws (A)

Step 11 Turn over the DVD module board and the DAC board.
Step 12 Connect the FFC cable to the connector (CN1304).
Step 13 Place cardboard.


Step 12
Step 11
DAC board
Connector
(CN1304)
Step 13
DVD module board

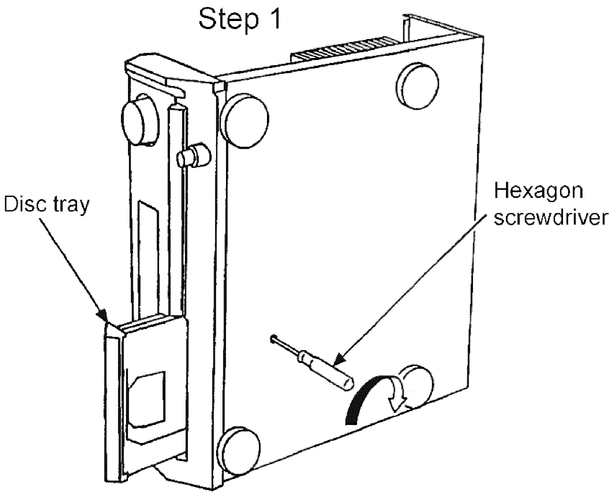
- Check the conditions of the DVD module board (side B) and the DAC board (solder side) as shown in the diagram below.


DAC board
DVD module board

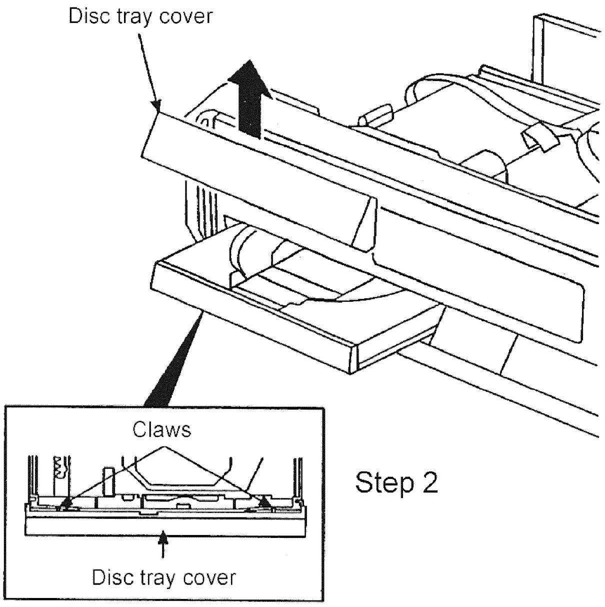
8.1.2. Checking the FL board

- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Checking Procedure for each major P.C.B.].

Step 1 Insert a hexagon screwdriver (the jig with servicing gear) into the hole located in the bottom of the unit, turn the driver to the arrow direction to open the disc tray.

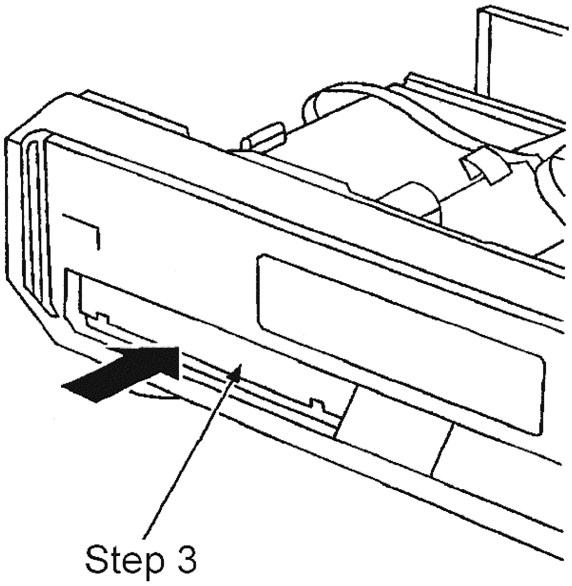

Step 1
Disc tray
Hexagon
screwdriver

Step 2 Remove the two claws to remove the disc tray cover.

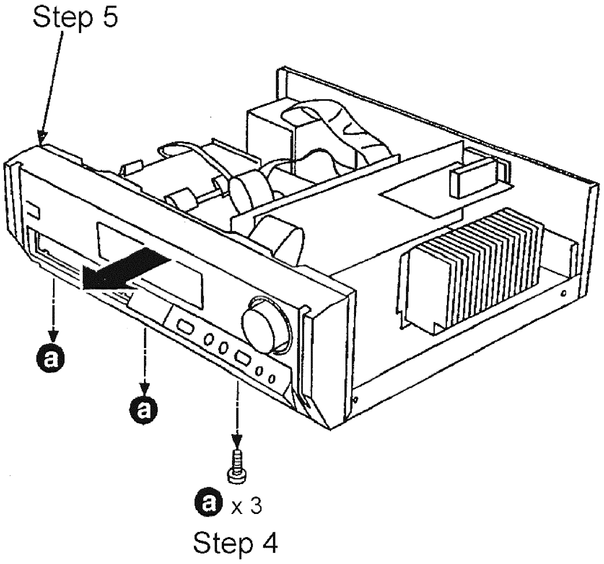

Disc tray cover
Claws
Disc tray cover
Step 2

Back view

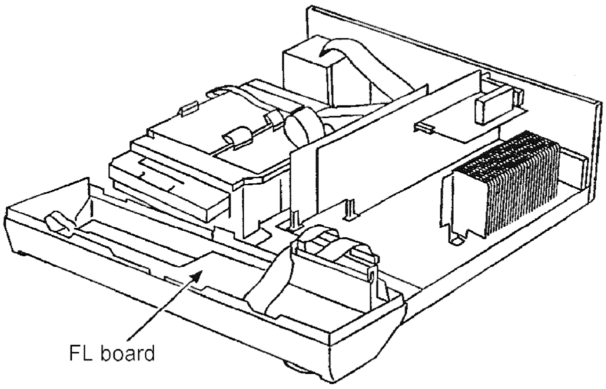
Step 3 Push in the disc tray.



Step 4 Remove the screws.
Step 5 Remove the front panel (standard).


Step 5
a
a
a x 3
Step 4

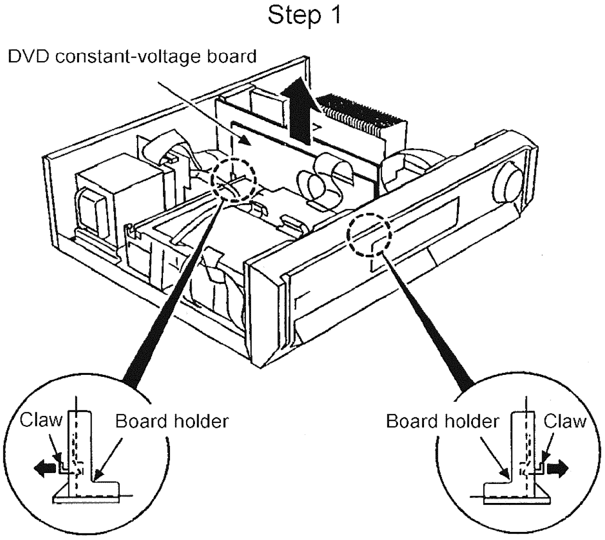
- Check the condition of the FL board as shown in the diagram below.



8.1.3. Checking the DSP board

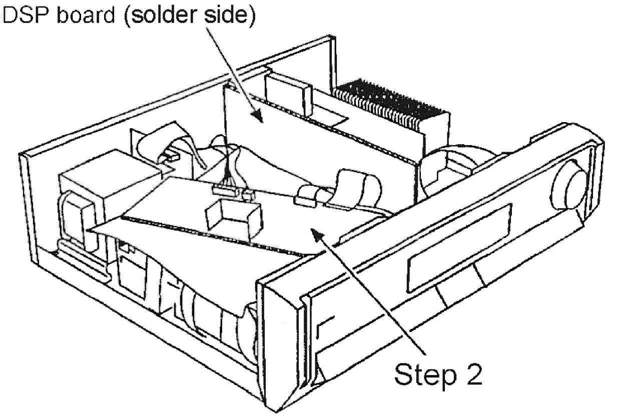
- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Checking Procedure for each major P.C.B.].

Step 1 Remove the two claws of the board holder, and pull up the DVD constant-voltage board.


Step 1
DVD constant-voltage board
Claw
Board holder
Board holder
Claw

- Check the condition of the DSP board as shown in the diagram below.

Step 2 Place the DVD constant-voltage board on the loading unit.


DSP board (solder side)
Step 2

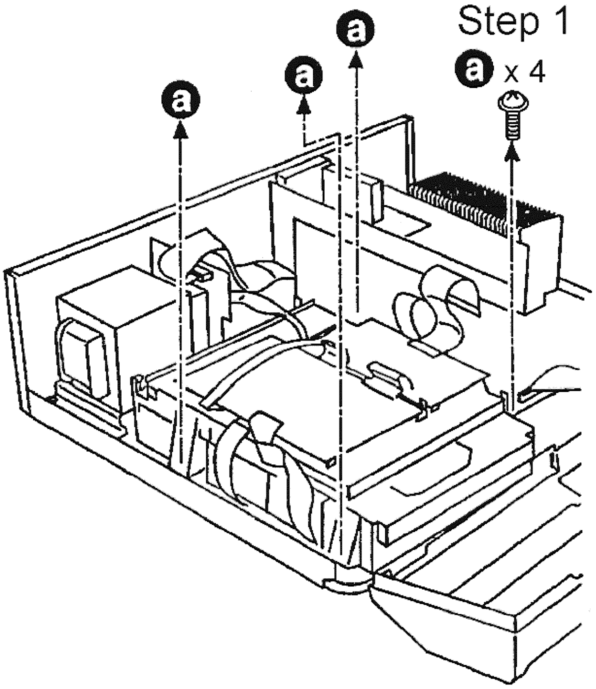
CAUTION / Place cardboard.

8.1.4. Checking the DVD constant-voltage board

- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 5 under Section 2 of [Checking Procedure for each major P.C.B.].

(Note: Clamp the disc to the loading unit in advance.)

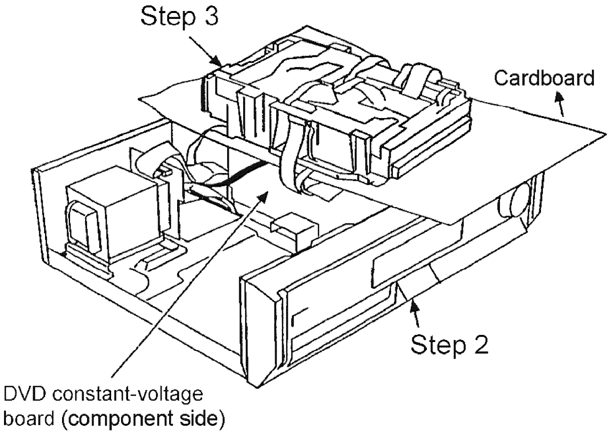
Step 1 Remove the screws.


Step 1
a x 4
a
a
a

- Check the parts surface of the DVD constant-voltage board as shown in the diagram below.

Step 2 Attach the front panel (standard) to the unit.

Step 3 Turn over the loading unit, and place it onto the upper right side of the unit.


Step 3
Cardboard
Step 2
DVD constant-voltage board (component side)

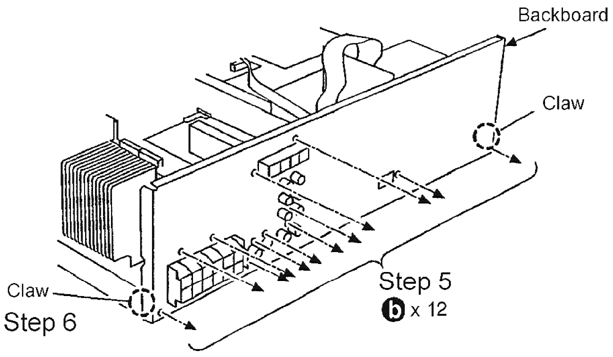
CAUTION / Place cardboard.

- If the conditions of other parts cannot be checked from the component side on the DVD constant-voltage board, follow the instructions below to check from the solder side of the boards.

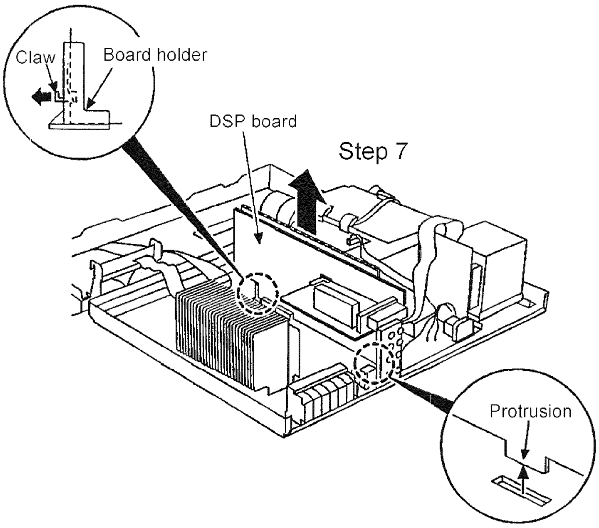
Step 4 Remove the front panel (standard), and reassemble the loading unit.

Step 5 Remove the screws.

Step 6 Remove the two claws, and remove the backboard.

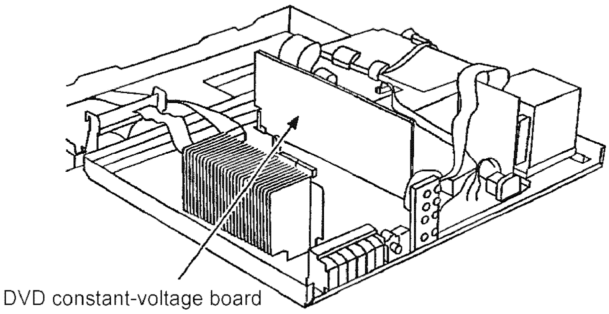

Backboard
Claw
Claw
Step 6
Step 5
ⓑ x 12

Step 7 Remove the board holder claws, and pull out the DSP board.


Claw
Board holder
DSP board
Step 7
Protrusion

CAUTION / Pull upward the DSP board to avoid breaking the protrusion on the DSP board.

- Check the condition of the DVD constant-voltage board from its solder side as shown in the diagram below.

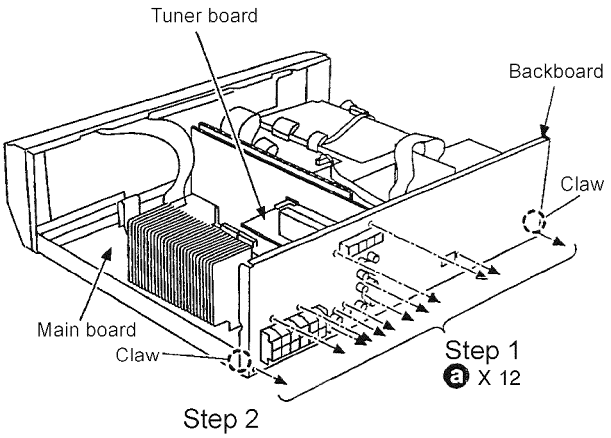

DVD constant-voltage board

8.1.5. Checking the Tuner board and the Main board

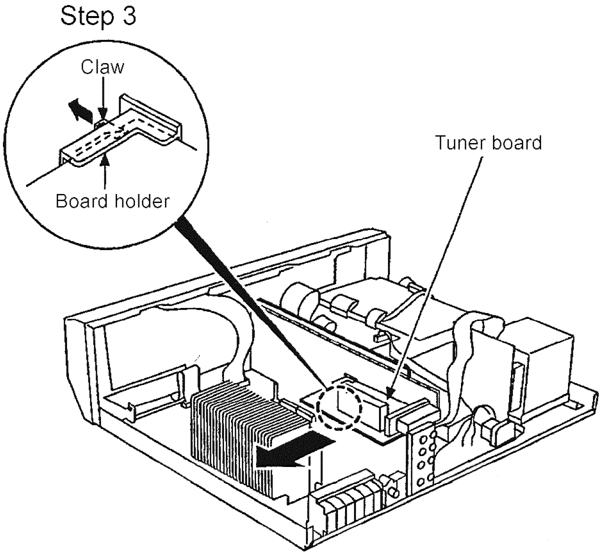
- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Checking Procedure for each major P.C.B.].
- Check the condition of the tuner board and the main board as shown in the diagram below.

Step 1 Remove the screws.

Step 2 Remove the two claws, and remove the backboard.

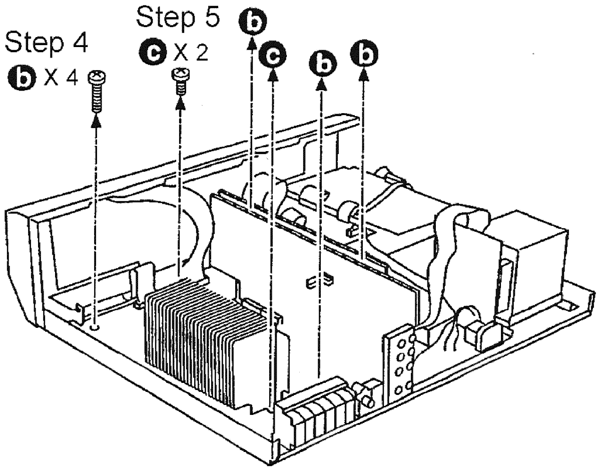

Tuner board
Backboard
Claw
Main board
Claw
Step 1
ⓐ X 12
Step 2

Step 3 Remove the claw located in the board holder, and pull out the tuner board.


Step 3
Claw
Board holder
Tuner board

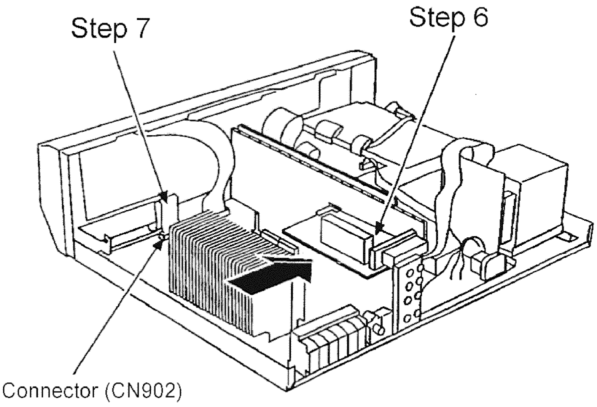
Step 4 Remove the screws.

Step 5 Remove the screws.


Step 4
ⓑ X 4
Step 5
ⓒ X 2
ⓑ
ⓒ
ⓑ
ⓑ

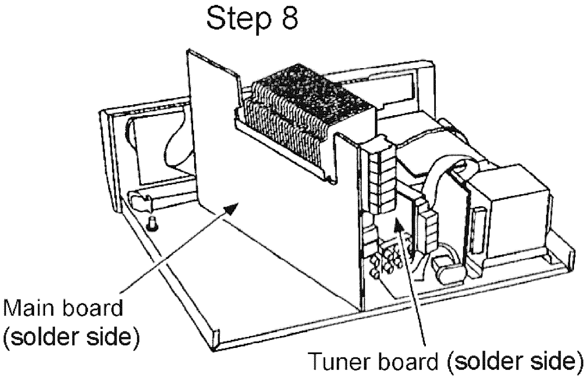
Step 6 Reassemble the tuner board to its original position

Step 7 Remove the parallel piece from the connector (CN902).


Step 7
Step 6
Connector (CN902)

- Check the conditions of the solder side of the tuner board and main board as shown in the diagram below.

Step 8 Place the main board in the parallel position.


Step 8
Main board
(solder side)
Tuner board (solder side)

8.2. Procedure for replacement of main parts and disassembly/reassembly of parts

8.2.1. Replacement of the Traverse deck (standard)

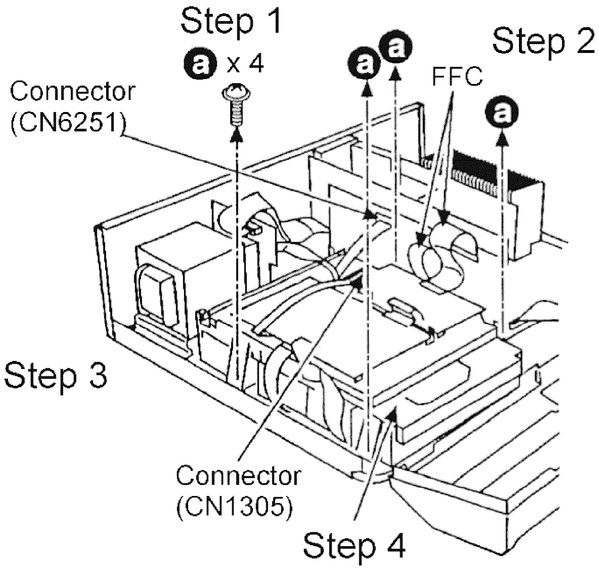
- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 5 under Section 2 of [Checking Procedure for each major P.C.B.].

Step 1 Remove the screws.

Step 2 Pull out the two FFC cables.

Step 3 Remove the two connectors.

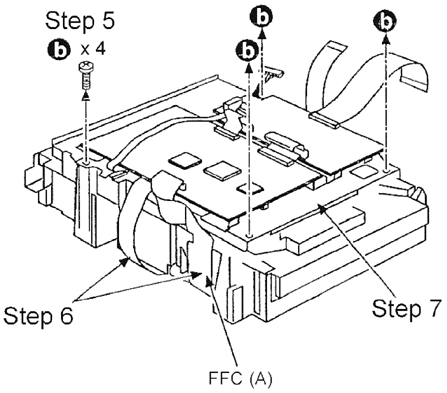
Step 4 Remove the loading unit.

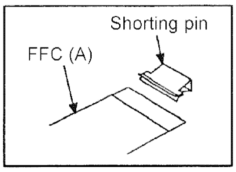

Step 1
a x 4
a
a
Step 2
FFC
a
Connector
(CN6251)
Step 3
Connector
(CN1305)
Step 4

Step 5 Remove the screws.

Step 6 Pull out the two FFC cables.

Step 7 Remove the upper board.

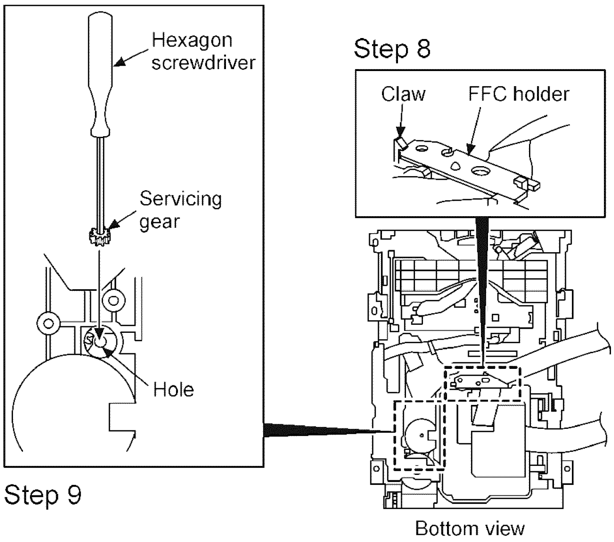

Step 5
b x 4
b
b
b
Step 6
Step 7
FFC (A)


Shorting pin
FFC (A)

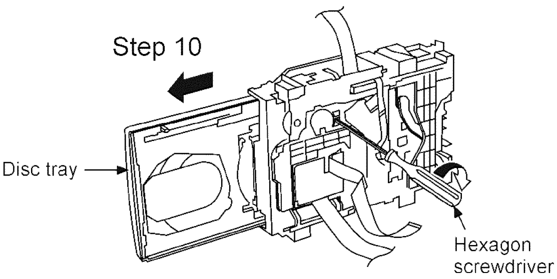
CAUTION / The FFC cable (A) is directly connected to the optical pickup through the traverse backboard. After removing the cable, immediately insert an antistatic shorting pin to the FFC cable. (Refer to "Handling Precautions for Traverse Deck Optical Pickup" for the details.)

Step 8 Remove the claw, and remove the FFC holder.

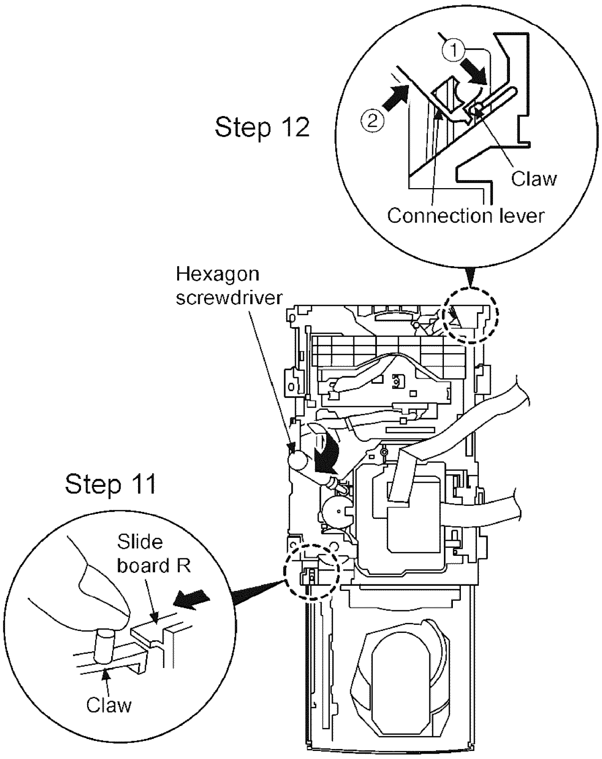
Step 9 Insert a hexagon screwdriver (with servicing gear).


Hexagon screwdriver
Servicing gear
Hole
Step 9
Step 8
Claw
FFC holder
Bottom view

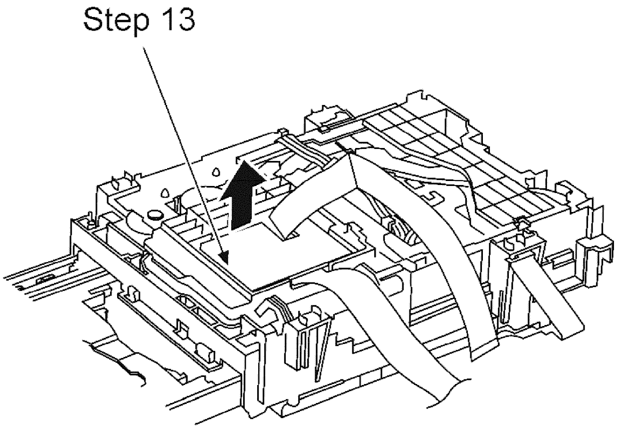
Step 10 Turn the hexagon screwdriver clockwise, and open the disc tray fully.


Step 10
Disc tray
Hexagon screwdriver

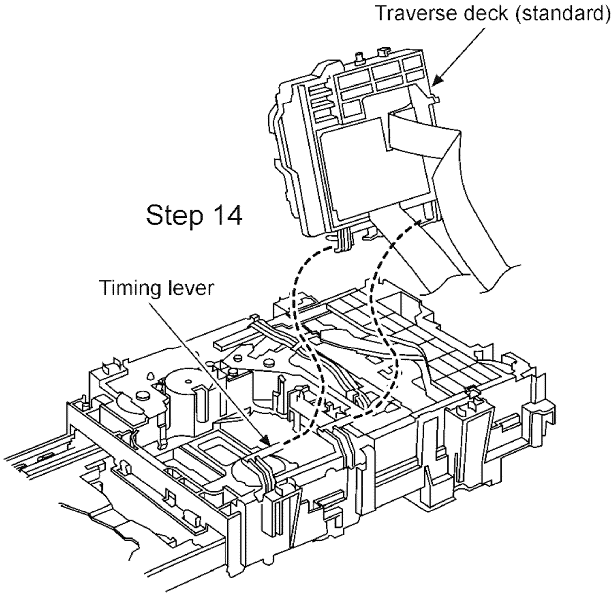
Step 11 Turn the hexagon screwdriver clockwise while the claw (A) is pressed down.
Step 12 When the claw (B) is pressed to the arrow direction 1, the connection lever moves to the arrow direction 2.


Step 12
①
②
Claw
Connection lever
Hexagon screwdriver
Step 11
Slide board R
Claw

Step 13 Lift up the traverse deck (standard).



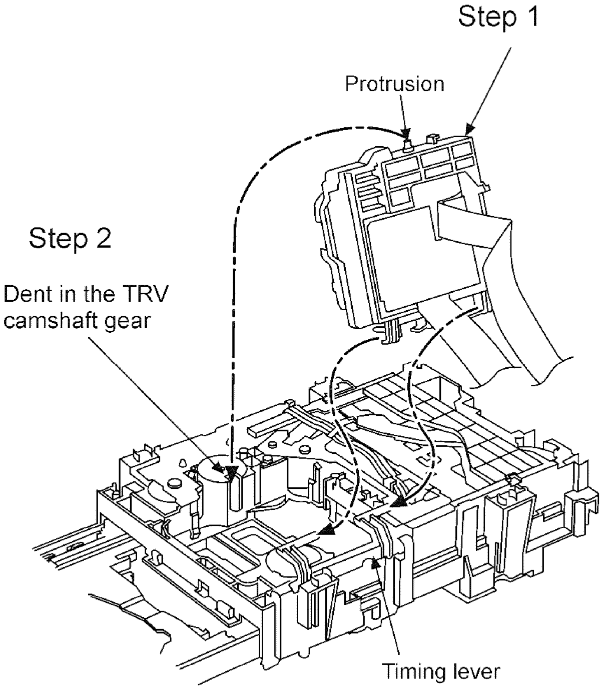
Step 14 Remove the traverse deck (standard) from the timing lever.


Traverse deck (standard)
Step 14
Timing lever

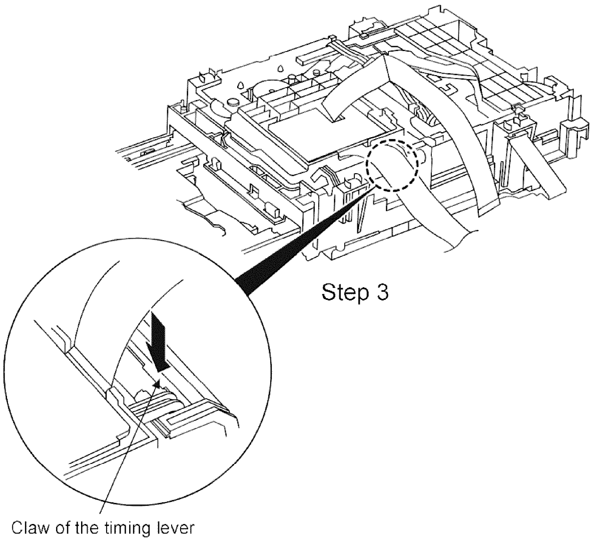
8.2.1.1. Reassembly of Traverse Deck (standard)

Step 1 Attach the traverse deck (standard) to the timing lever.

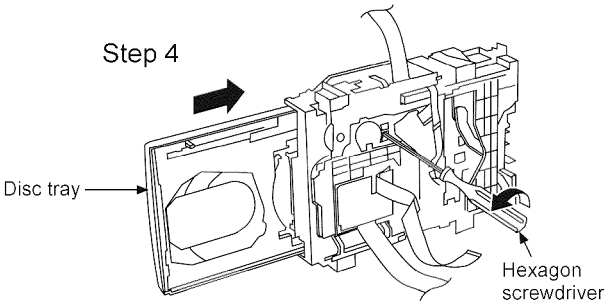
Step 2 Insert the protrusions of the traverse deck (standard) into the dent of the TRV camshaft gear.


Step 1
Protrusion
Step 2
Dent in the TRV camshaft gear
Timing lever

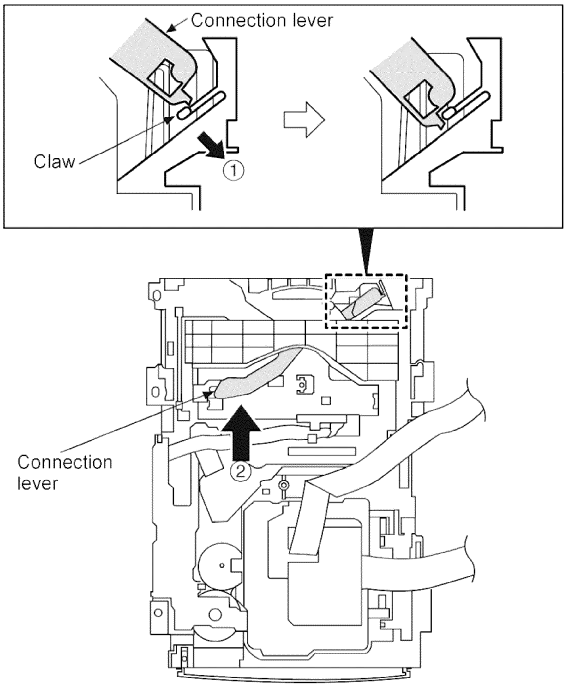
Step 3 Push into the claw of the timing lever.


Step 3
Claw of the timing lever

Step 4 Turn the hexagon screwdriver fully to the arrow direction to close the disc tray securely.


Step 4
Disc tray
Hexagon screwdriver

Step 5 While pushing the claw (B) to the arrow direction 1, push the connection lever to the arrow direction 2.


Connection lever
Claw
①
②
Connection lever

Step 5

8.2.2. Replacement for the Disc Tray

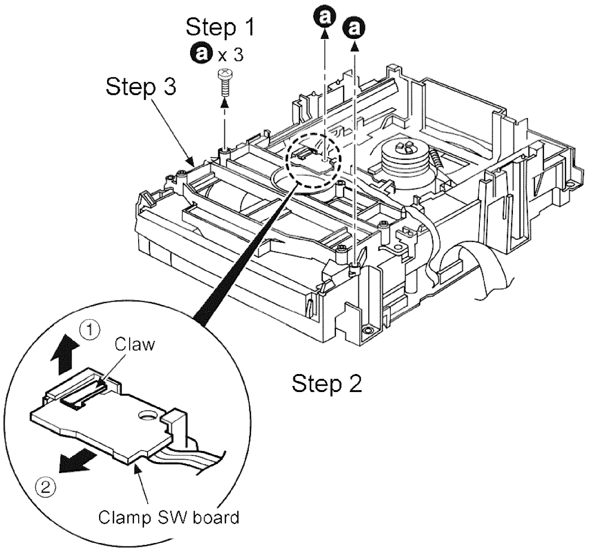
- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Procedure for disassembly to board function check].
- Follow the instructions, Step 1 to Step 5 under Section 2 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 7 under Section 1 of [Procedure for replacement of main parts and

disassembly/reassembly of parts].

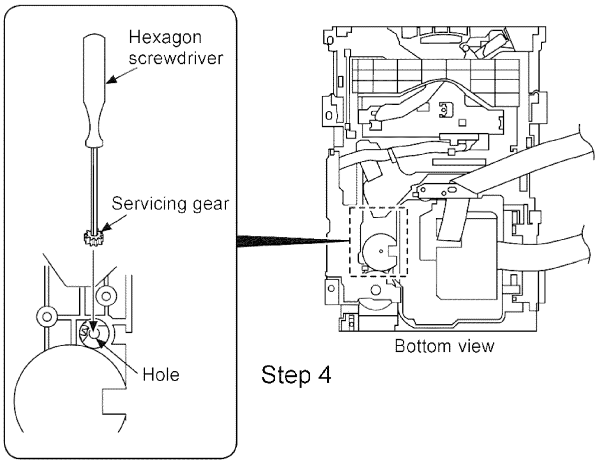
Step 1 Remove the screws.

Step 2 While holding up the claw to the arrow direction 1, pull out the clamp SW board to the arrow direction 2.

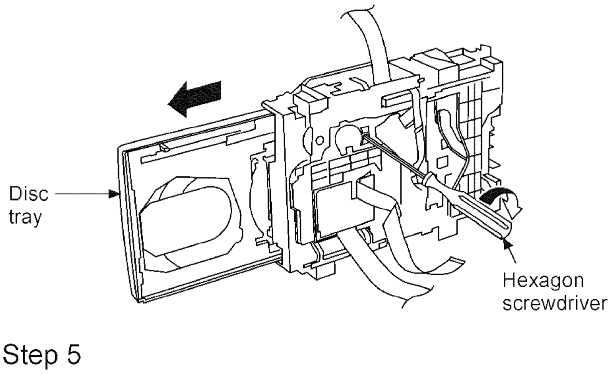
Step 3 Remove the mechanical cover.


Step 1
a x 3
a
a
Step 3
①
Claw
Step 2
②
Clamp SW board

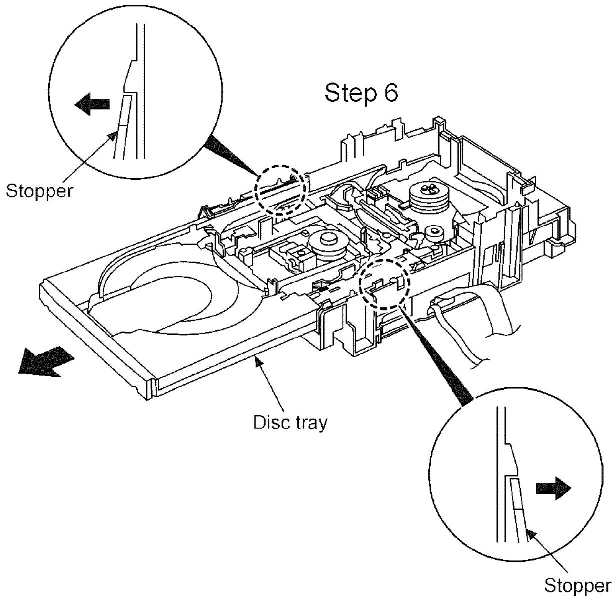
Step 4 Insert the hexagon screwdriver (with servicing gear) into the hole.


Hexagon screwdriver
Servicing gear
Hole
Step 4
Bottom view

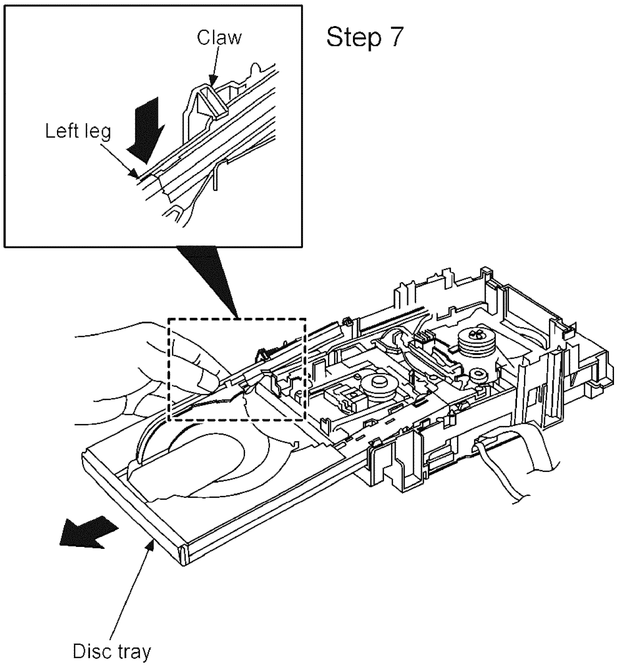
Step 5 Turn the hexagon screwdriver clockwise, and pull out the disc tray fully.


Disc tray
Hexagon screwdriver
Step 5

Step 6 Release the stoppers located in the both sides of the unit, and pull out the disc tray.

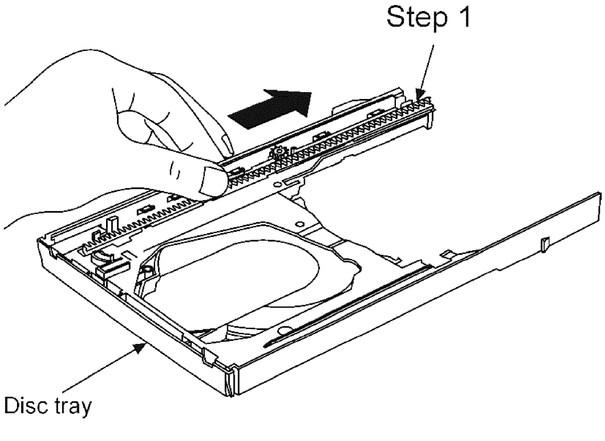

Step 6
Stopper
Disc tray
Stopper

Step 7 As the left leg of the disc tray contacts the claw, pull out the disc tray while holding down the leg.

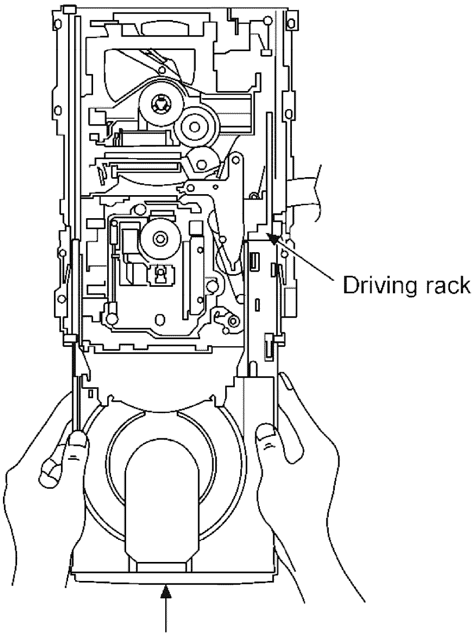

Claw
Step 7
Left leg
Disc tray

8.2.2.1. Reassembly of Disc Tray

Step 1 Slide the driving rack to the arrow direction completely.

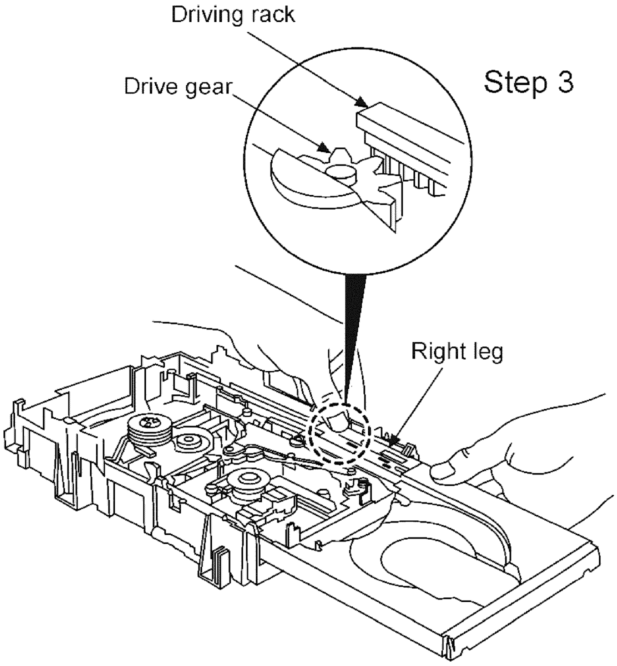

Step 1
Disc tray

Step 2 Insert the disc tray into the loading unit while holding the driving rack securely.


Driving rack
Disc tray

Step 2

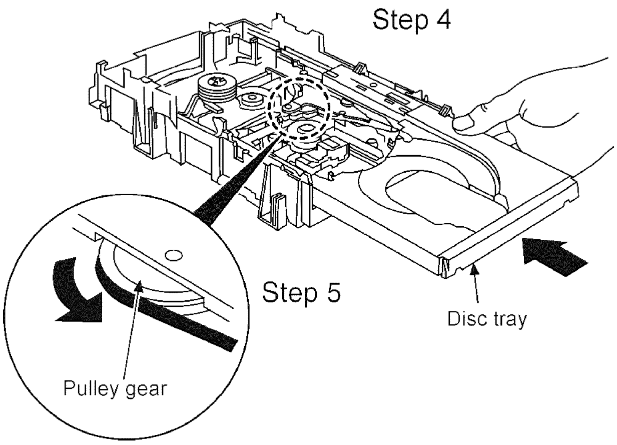
Step 3 The driving rack and the drive gear should engage with each other.


Driving rack
Drive gear
Step 3
Right leg

CAUTION / Slightly hold down the right leg of the disc tray.

Step 4 Insert the disc tray while holding the driving rack.

Step 5 Rotate the gear 5 or 6 times manually, and then push the disc tray.



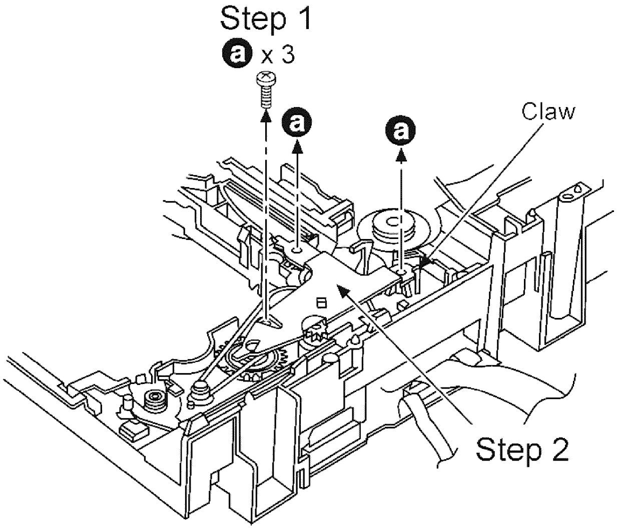
8.2.3. Disassembly and Reassembly for the Mechanical Base Unit

8.2.3.1. Disassembly of the Mechanical Base Driving section

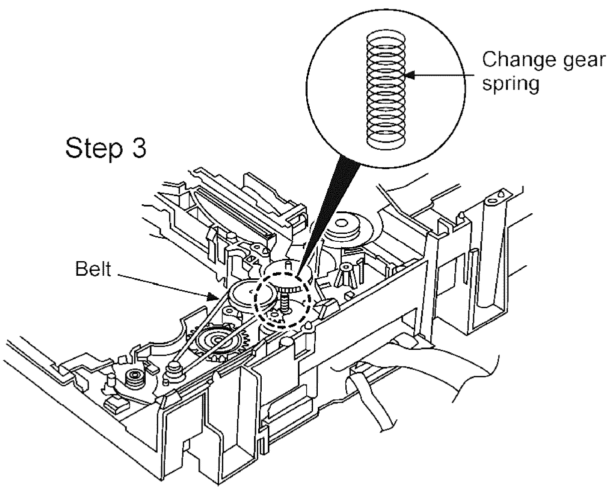
- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 5 under Section 2 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 14 under Section 1 of [Procedure for replacement of main parts and disassembly/reassembly of parts].
- Follow the instructions, Step 1 to Step 7 under Section 2 of [Procedure for replacement of main parts and disassembly/reassembly of parts].

Step 1 Remove the screws.

Step 2 Remove a claw, and then the pitch plate.

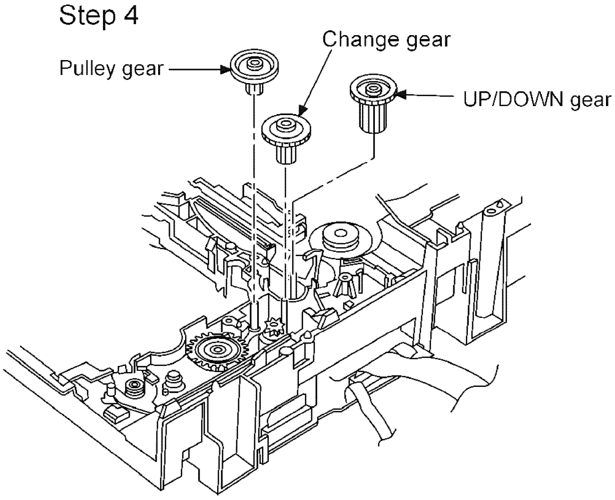


Step 3 Remove the belt and gear spring.


Step 3
Change gear spring
Belt

CAUTION / Take care to avoid losing the removed change gear spring.

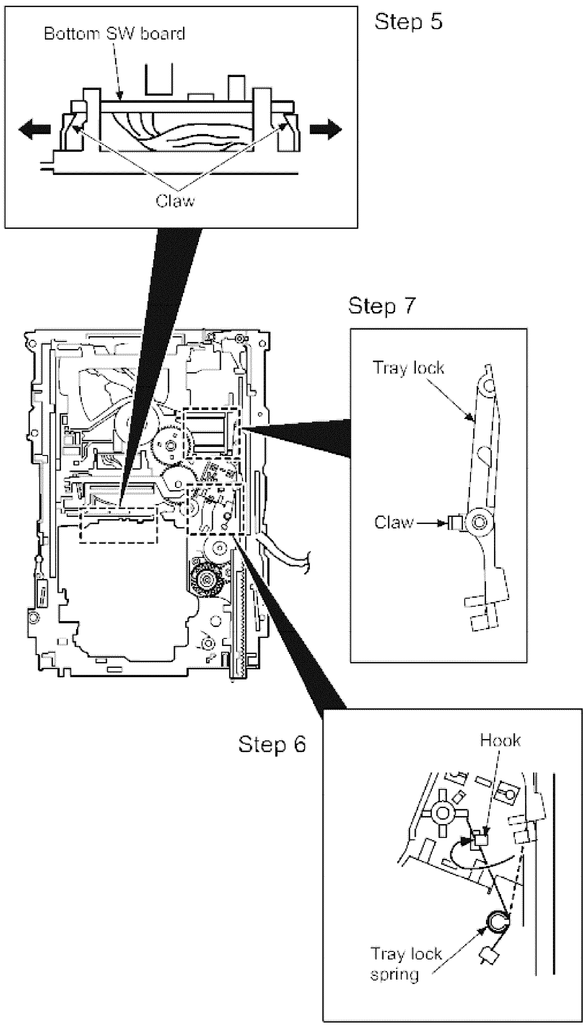
Step 4 Remove the pulley gear, change gear, and UP/DOWN gear.


Step 4
Change gear
Pulley gear
UP/DOWN gear

Step 5 Remove the two claws, and then the bottom SW board.

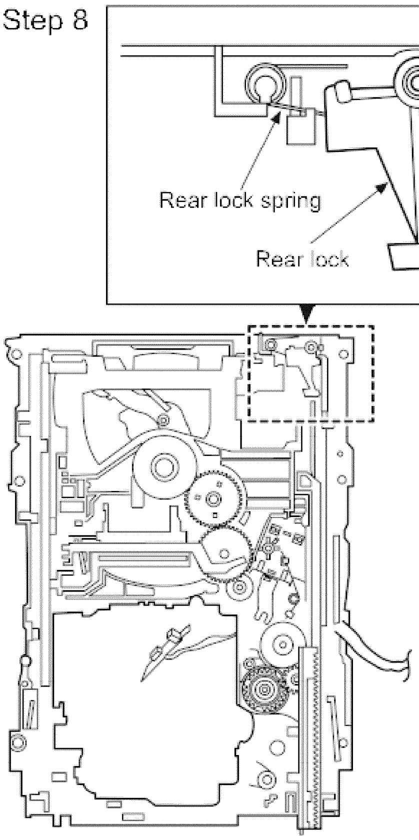
Step 6 Put the tray lock spring on the hook temporarily.

Step 7 Remove a claw, and then the tray lock.


Step 5
Bottom SW board
Claw
Step 7
Tray lock
Claw
Step 6
Hook
Tray lock
spring

Step 8 Remove a claw, and then the rear lock.

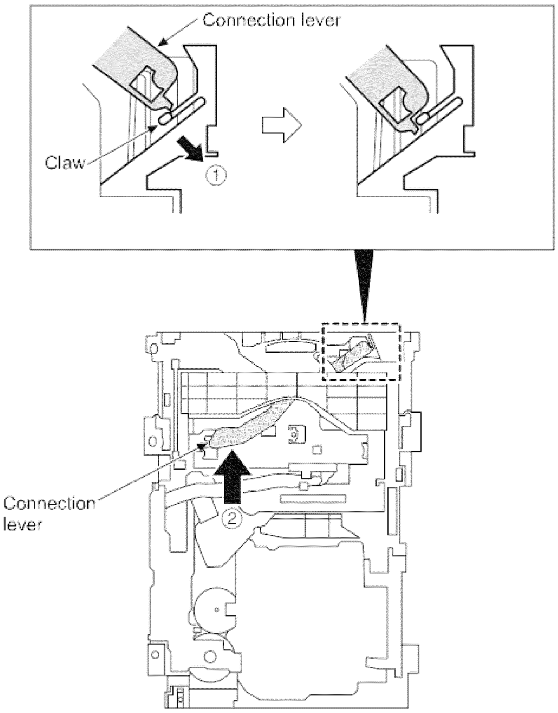
Step 8


Rear lock spring
Rear lock

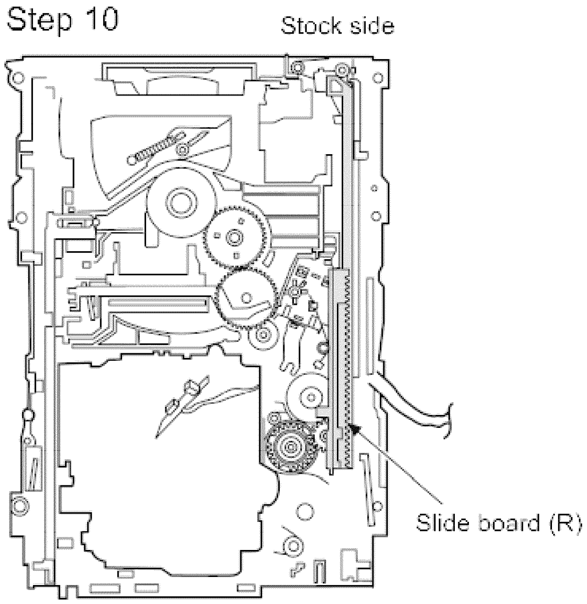
CAUTION / Take care to avoid removing the rear lock spring.

Step 9 Push the connection lever into the arrow direction 2 while pressing the claw (B) to the arrow direction 1.

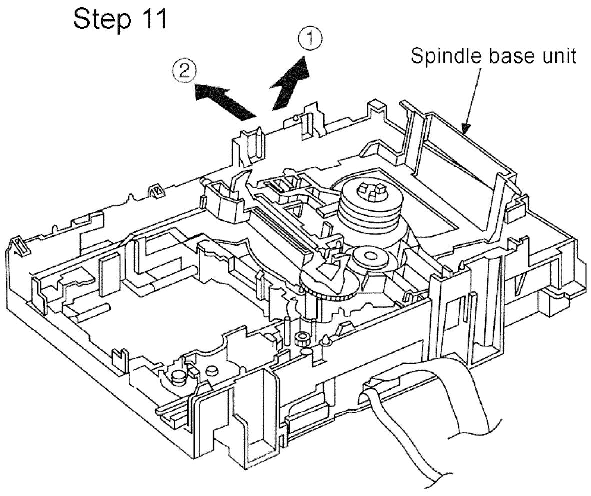
Step 9

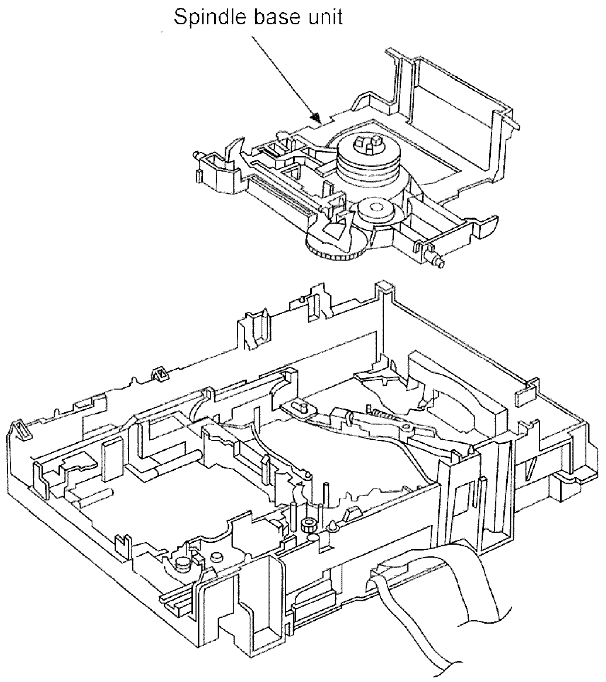

Connection lever
Claw
①
Connection lever
②

Step 10 Slide the slide board (R) to the end of the stock side.

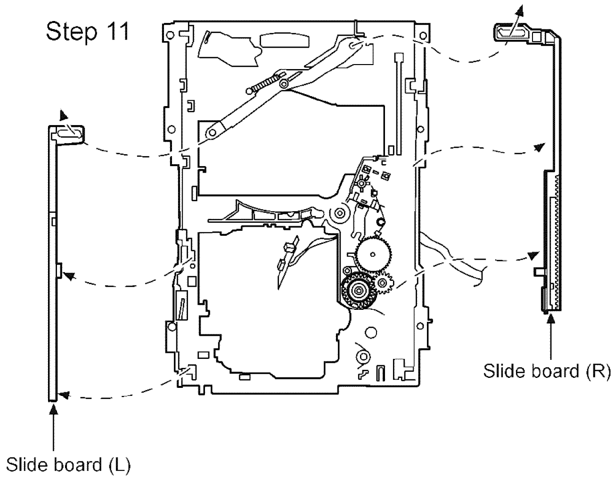

Step 10
Stock side
Slide board (R)

Step 11 Lift up the left side of the spindle base unit to the arrow direction 1, and then remove the whole unit to the arrow direction 2.

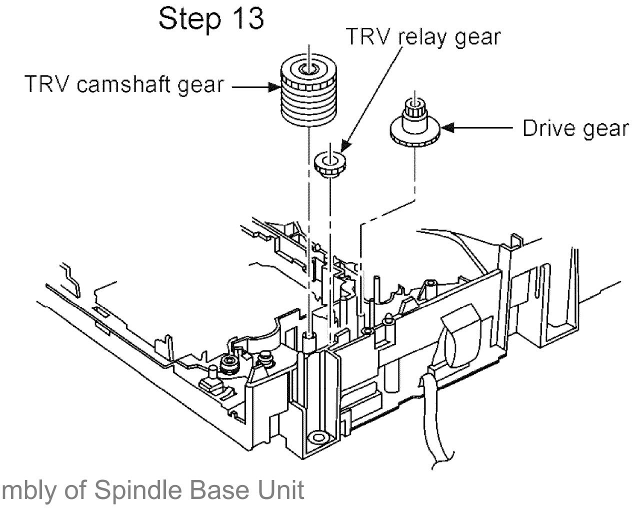

Step 11
②
①
Spindle base unit


Spindle base unit

Step 12 Remove the slide boards (R) and (L).

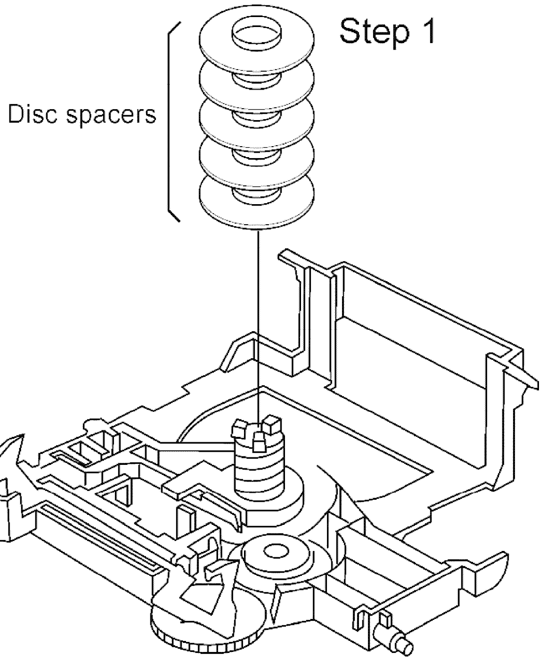

Step 11
Slide board (R)
Slide board (L)

Step 13 Remove the TRV relay gear, TRV camshaft gear, and drive gear.

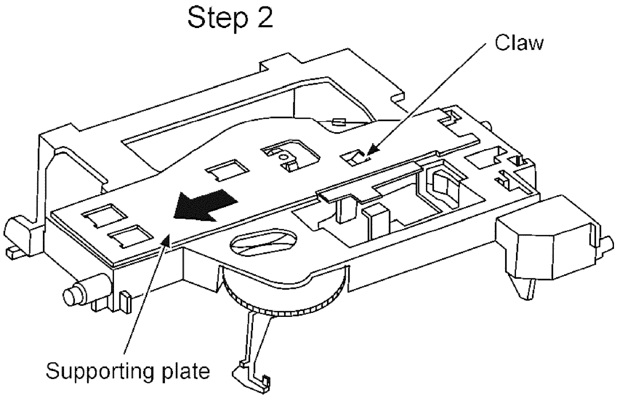

Step 13
TRV relay gear
TRV camshaft gear
Drive gear

8.2.3.2. Disassembly/Assembly of Spindle Base Unit

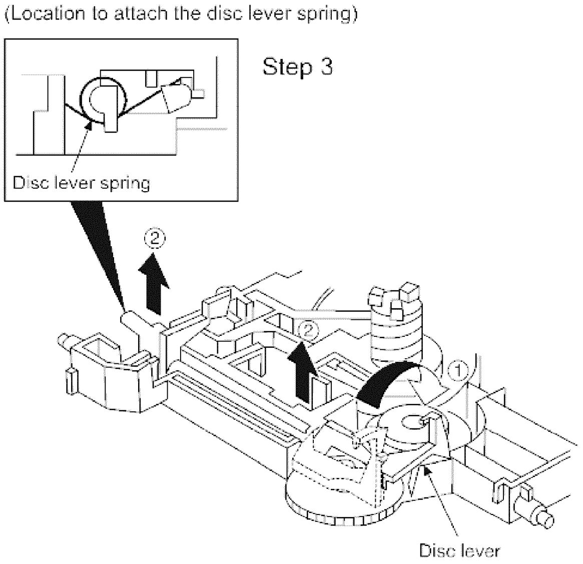
Step 1 Push down the lower hook using a flat-slot screwdriver with a thin tip, and remove the five disc spacers.


Step 1
Disc spacers

Step 2 Slide the supporting plate to the arrow direction while pressing the claw, and remove the plate.

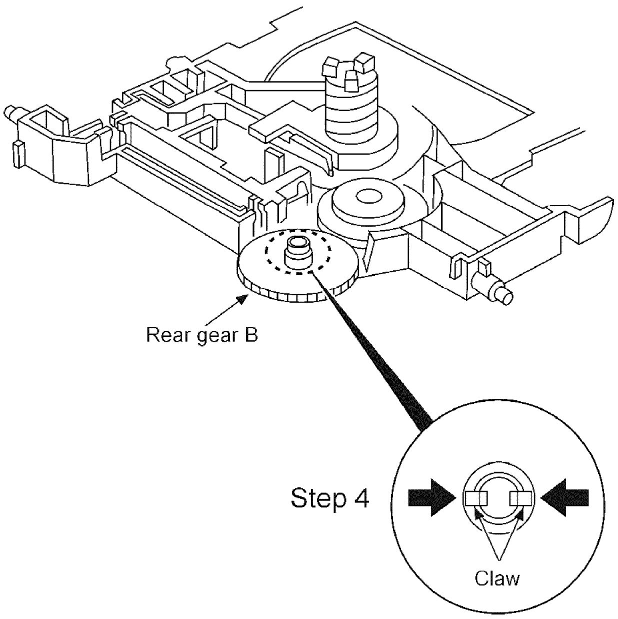

Step 2
Claw
Supporting plate

Step 3 Pull out the disc lever while the disc lever is set to the position rotated to the arrow direction 1.

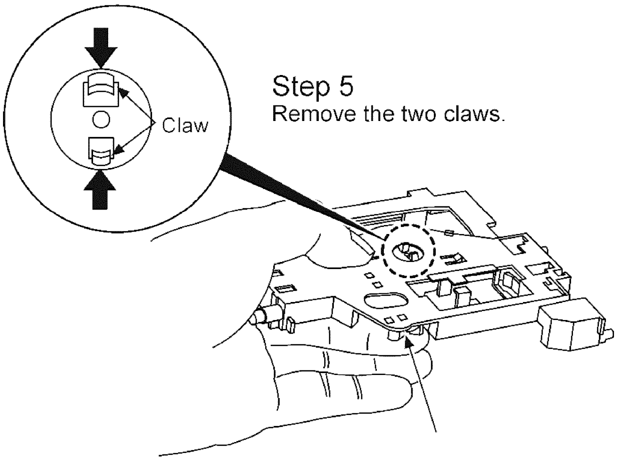

(Location to attach the disc lever spring)
Step 3
Disc lever spring
②
②
①
Disc lever

CAUTION / Take care to avoid losing the removed disc lever spring.

Step 4 Remove the two claws, and then the rear gear B.


Rear gear B
Step 4
Claw

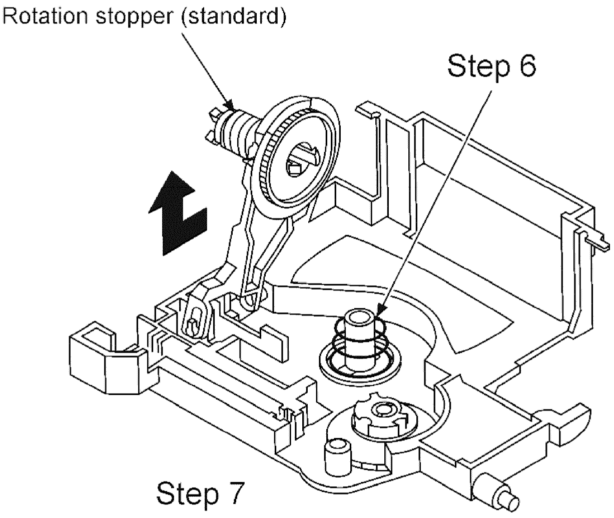
Step 5 Remove the two claws.


Step 5
Remove the two claws.
Claw

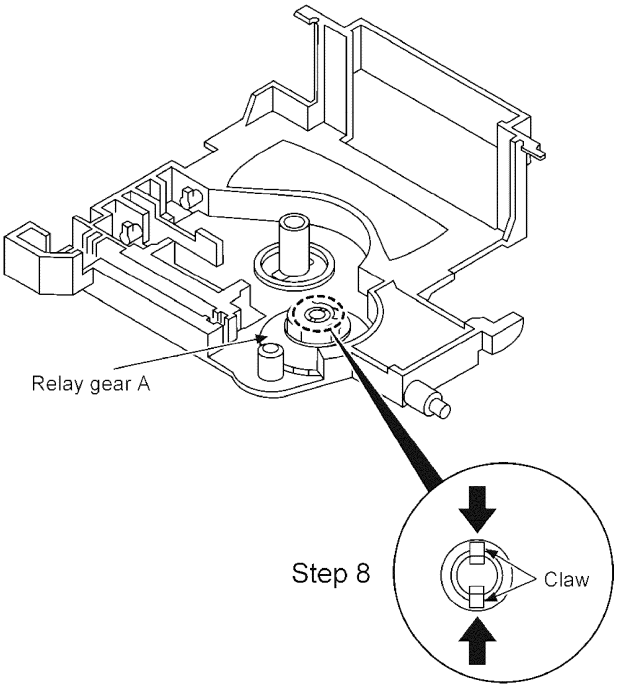
CAUTION / As the rotation stopper (standard) tends to jump by the spring, hold down the area shown in the diagram.

Step 6 Remove the cushioning spring.

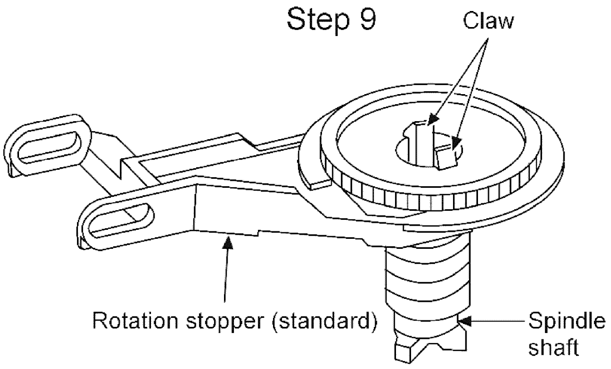
Step 7 Remove the rotation stopper (standard) to the arrow direction.


Rotation stopper (standard)
Step 6
Step 7

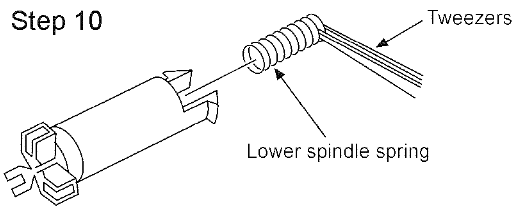
Step 8 Remove the two claws, and pull out the relay gear A.


Relay gear A
Step 8
Claw

Step 9 Remove the two claws, and then spindle shaft.

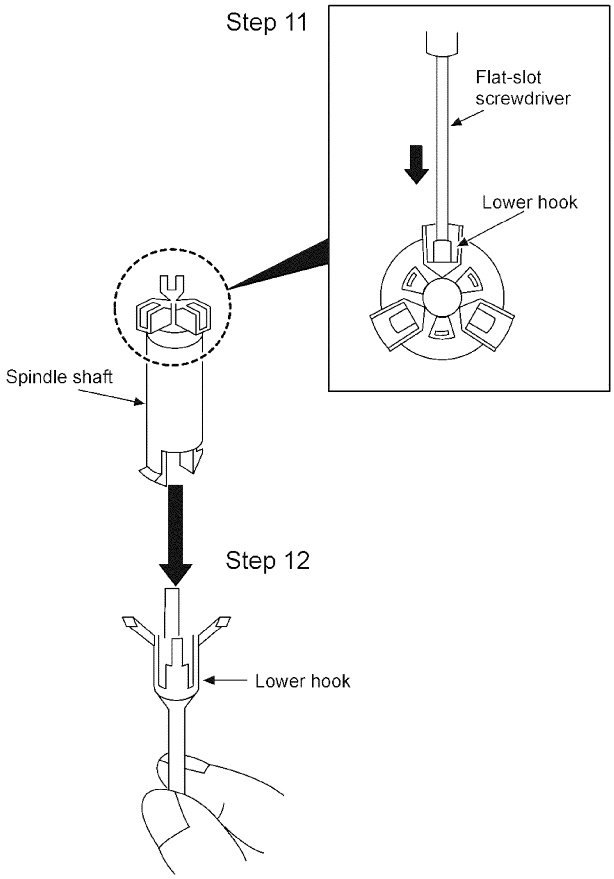

Step 9
Claw
Rotation stopper (standard)
Spindle
shaft

Step 10 Remove the lower spindle spring using tweezers.


Step 10
Tweezers
Lower spindle spring

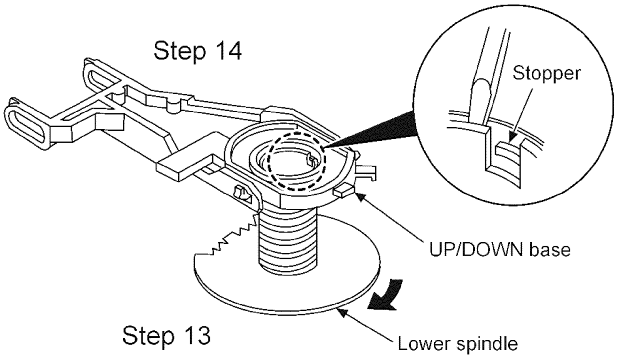
Step 11 Push in the lower hook using a flat-slot screwdriver with a thin tip, and remove the five disc spacers.

Step 12 Pull the shaft of the lower hook.

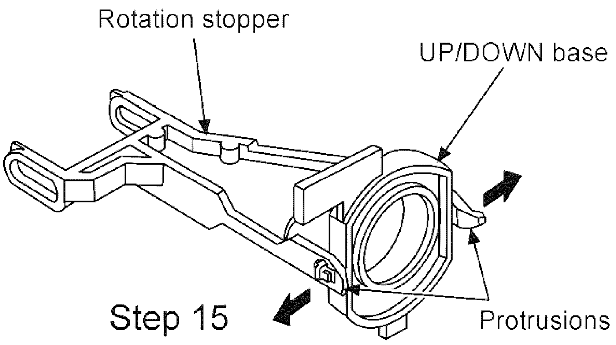

Step 11
Flat-slot screwdriver
Lower hook
Spindle shaft
Step 12
Lower hook

Step 13 Rotate the lower spindle to the arrow direction till it contacts the stopper.

Step 14 Insert a flat-slot screwdriver with a thin tip into the space between the lower spindle and the UP/DOWN base so that the lower spindle is slightly lifted up and the stopper is unlocked. Then rotate and remove the lower spindle.

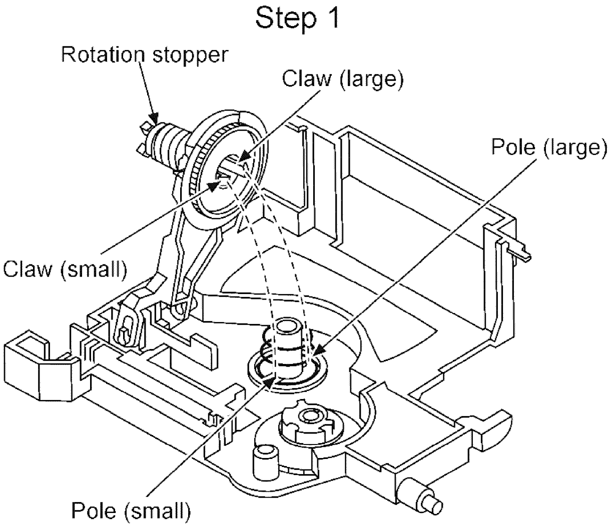

Step 14
Stopper
UP/DOWN base
Step 13
Lower spindle

Step 15 Rotate the UP/DOWN base at the angle of 90 degree. Then, open the protrusions of the rotation stopper to remove the UP/DOWN base.

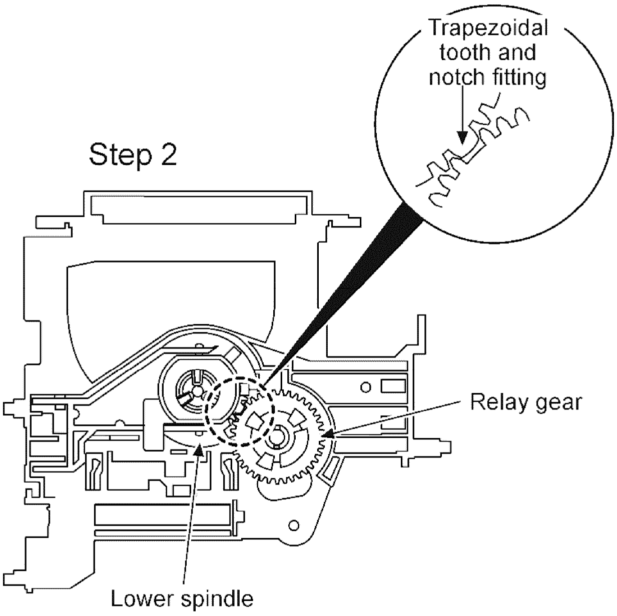

Rotation stopper
UP/DOWN base
Step 15
Protrusions

8.2.3.3. Reassembly of Rotation Stopper (standard)

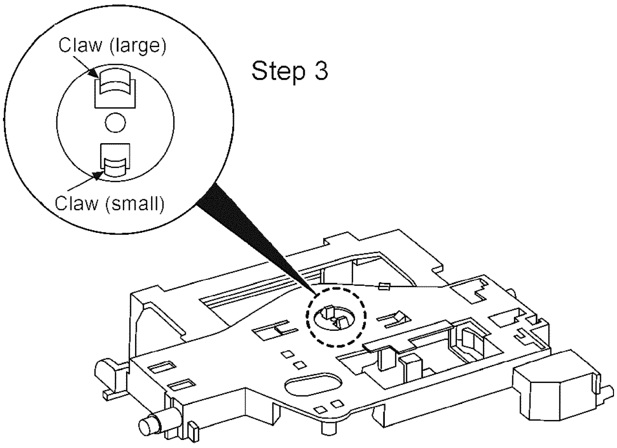
Step 1 Join the claw of the rotation stopper (standard) to the pole of the spindle base. (Identify the large or small size of the claws and poles.)


Step 1
Rotation stopper
Claw (large)
Pole (large)
Claw (small)
Pole (small)

Step 2 Bring down the rotation stopper (standard), and fit the trapezoidal teeth of the lower spindle into the notch of the relay gear A.


Trapezoidal
tooth and
notch fitting
Step 2
Relay gear
Lower spindle

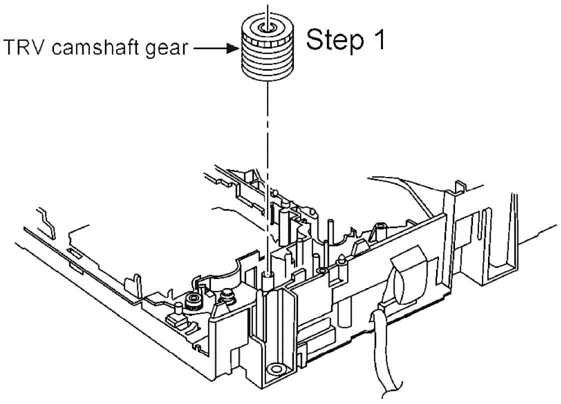
Step 3 Push in the rotation stopper (standard), and hook the claws securely.

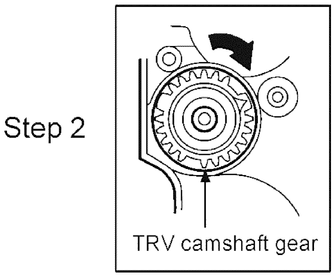

Claw (large)
Claw (small)
Step 3

8.2.3.4. Reassembly of Mechanical Driving Section

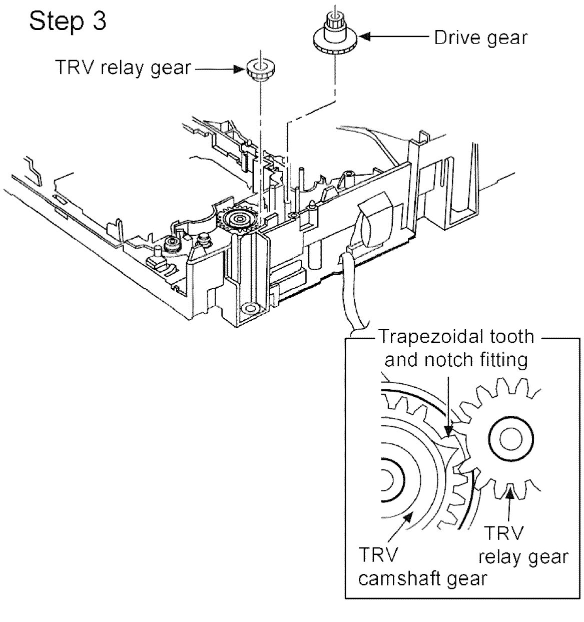
Step 1 Attach the TRV camshaft gear.

Step 2 Turn the TRV camshaft gear clockwise.


TRV camshaft gear
Step 1


Step 2
TRV camshaft gear

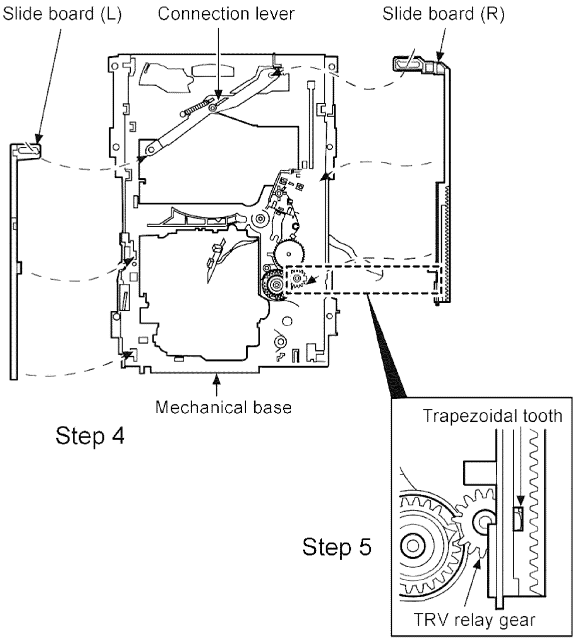
Step 3 Attach the drive gear and TRV relay gear.


Step 3
Drive gear
TRV relay gear
Trapezoidal tooth and notch fitting
TRV camshaft gear
TRV relay gear

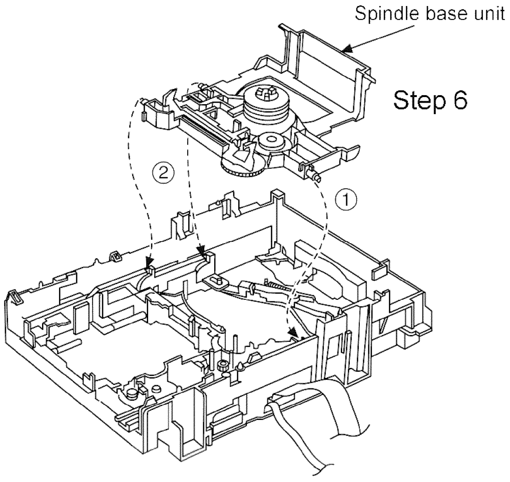
Be sure that the trapezoidal tooth of the TRV camshaft gear is correctly fit into the notch as shown in the right diagram.

Step 4 Attach the slide board (L) to the mechanical base, and fasten together with connection lever.

Step 5 Attach the slide board (R) to the mechanical base, and fasten together with the connection lever. Then, position the trapezoidal tooth of the TRV relay gear correctly.

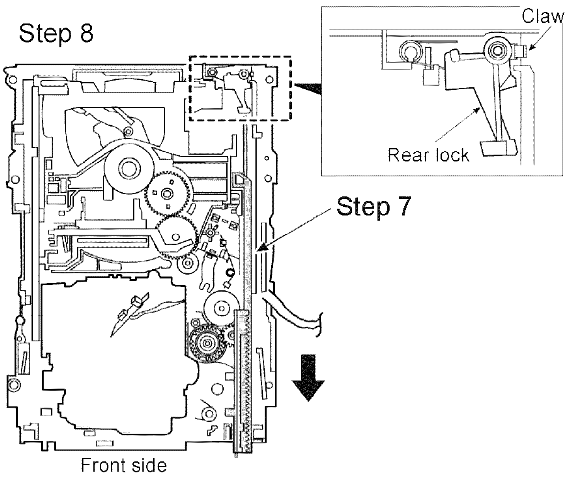

Slide board (L)
Connection lever
Slide board (R)
Mechanical base
Step 4
Trapezoidal tooth
Step 5
TRV relay gear

Step 6 Attach the spindle base unit. (Attach to the slide board (R) side first.)


Spindle base unit
Step 6
②
①

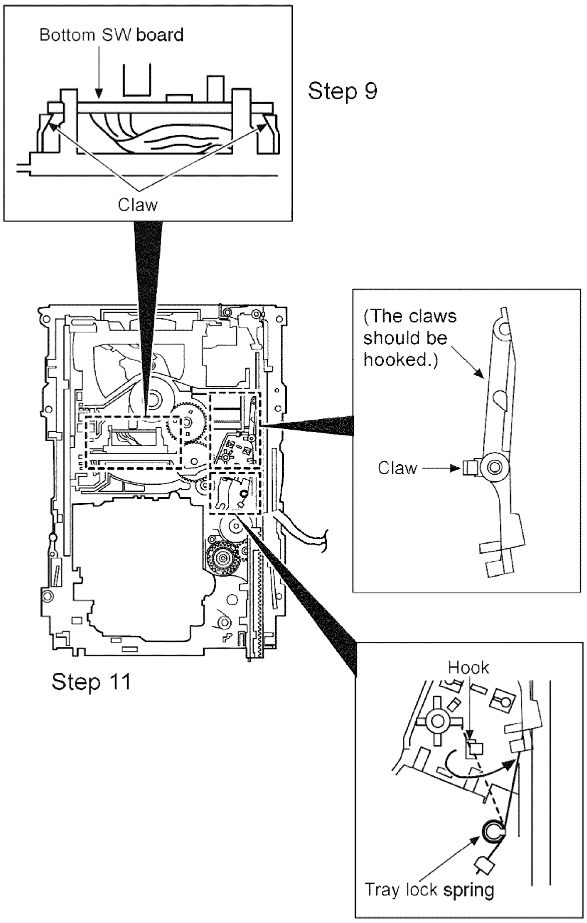
Step 7 Slide the slide board (R) to the front side completely.

Step 8 Attach the rear lock. (The claw should be hooked.)

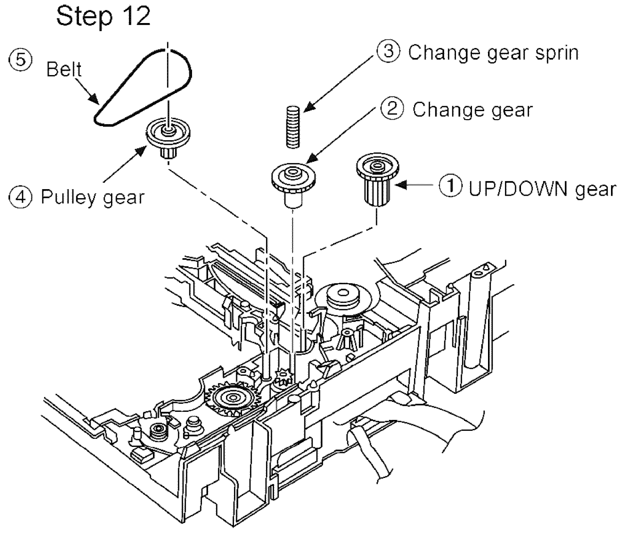

Step 8
Claw
Rear lock
Step 7
Front side

Step 9 Attach the bottom SW board.

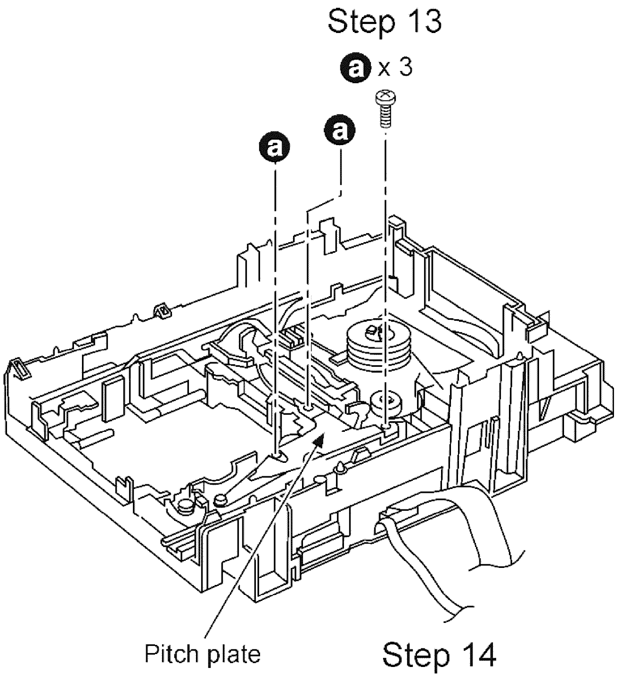
Step 11 Remove the tray lock spring from the hook, and put it to the tray lock.


Bottom SW board
Step 9
Claw
(The claws should be hooked.)
Claw
Step 11
Hook
Tray lock spring

Step 12 Attach the UP/DOWN gear, change gear, change gear spring, pulley gear and belt in that order as shown in the diagram below.


Step 12
⑤ Belt
③ Change gear sprin
② Change gear
① UP/DOWN gear
④ Pulley gear

Step 13 Attach the pitch plate, and fasten with the screws (a).



Step 14 Attach the disc tray, traverse deck, mechanical cover, etc. (Refer to Sections 1 and 2 under Procedure for replacement of main components for the details.)

[Function Check after Completion]

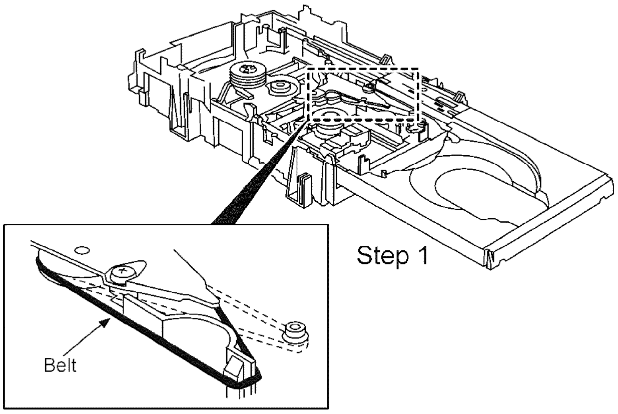
Use a hexagon screwdriver (with a servicing gear) to rotate and check the following functions.

1. Opening condition of the disc tray
2. Tray movement to the stock side
3. Up and down movements of the spindle base unit
4. Up and down movements of the traverse unit

8.2.4. Replacement for the Motor

- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 5 under Section 2 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 7 under Section 1 of [Procedure for replacement of main parts and disassembly/reassembly of parts].
- Follow the instructions, Step 1 to Step 5 under Section 2 of [Procedure for replacement of main parts and disassembly/reassembly of parts].

Step 1 Hook the belt temporarily.



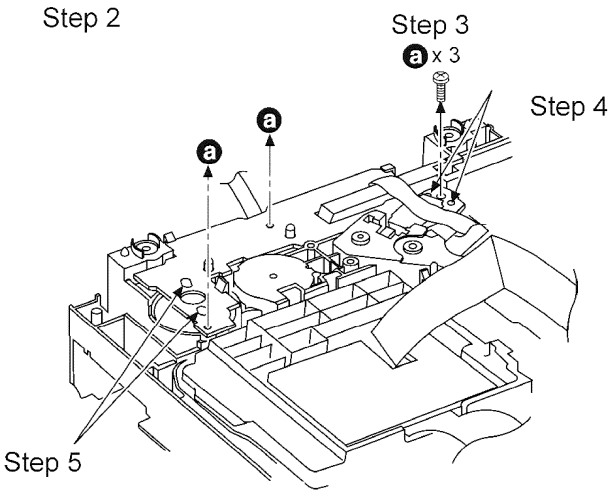
CAUTION / Keep track that the belt should be free from grease or other agents.

Step 2 Turn over the CD changer unit.

Step 3 Remove the screws.

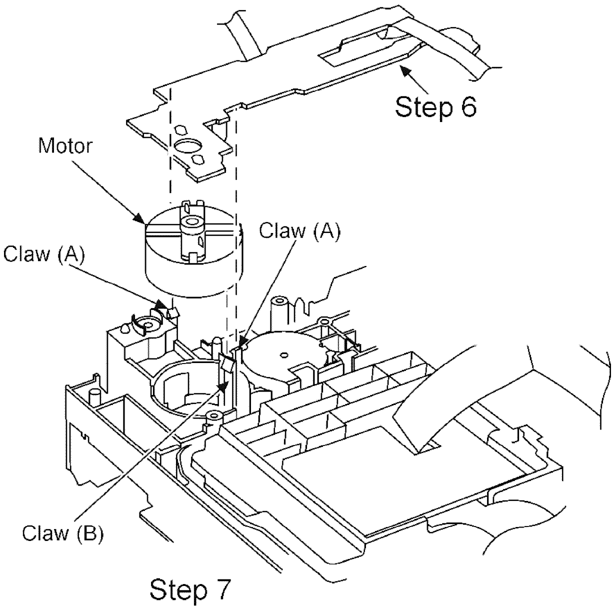
Step 4 Remove the solders (2 places) of the plunger terminal.

Step 5 Remove the solders (2 places) of the motor terminal.


Step 2
Step 3
a x 3
a
a
Step 4
Step 5

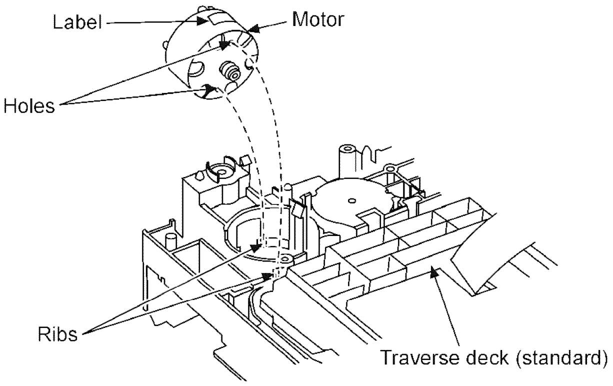
Step 6 Remove the claws (A), and then the motor board.

Step 7 Remove the claw (B), and then the motor.


Step 6
Motor
Claw (A)
Claw (A)
Claw (B)
Step 7

8.2.4.1. Precautions: Motor Assembly

1. The motor label should be positioned in the traverse deck side (standard).
2. The motor holes and ribs should be securely fitted with each other.

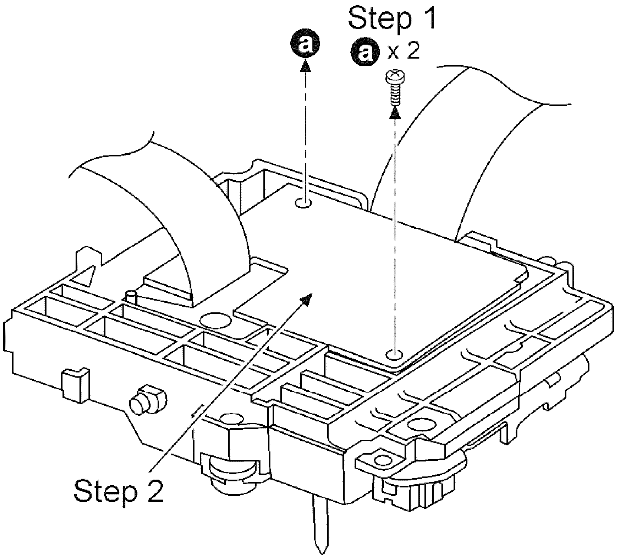

Label
Motor
Holes
Ribs
Traverse deck (standard)

8.2.5. Replacement for the Traverse motor, optical pickup and spindle motor.

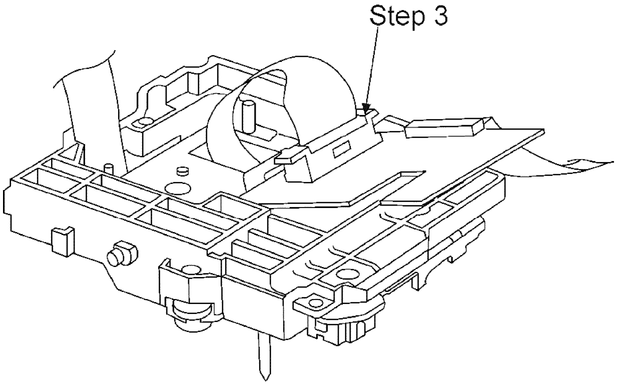
- Follow the instructions, the above Step 1 to Step 4 under Section 1 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 5 under Section 2 of [Checking Procedure for each major P.C.B.].
- Follow the instructions, Step 1 to Step 14 under Section 1 of [Procedure for replacement of main parts and disassembly/reassembly of parts].

Step 1 Remove the screws.

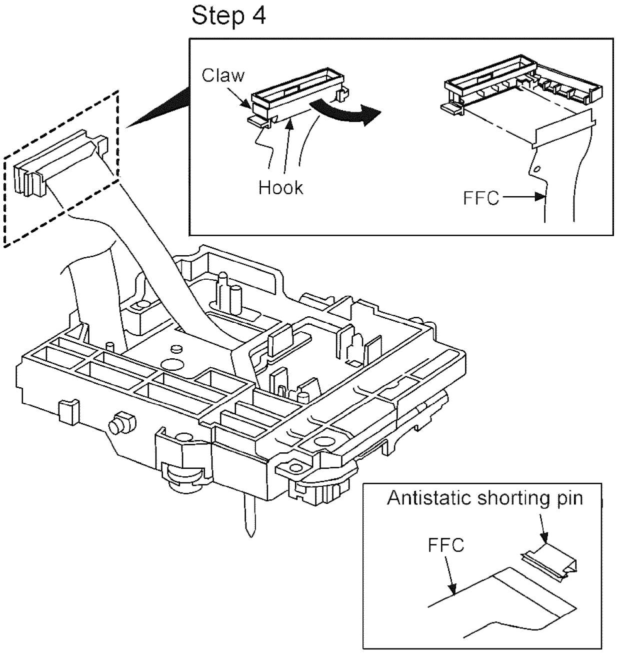
Step 2 Remove the relay board.



Step 3 Pull out the FFC holder.



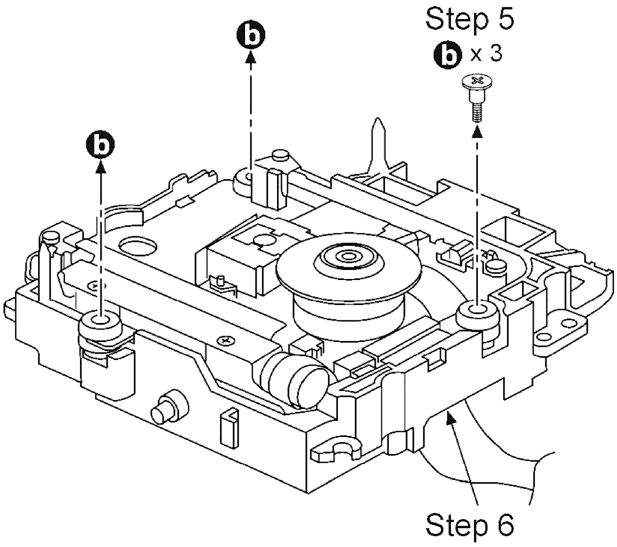
Step 4 Unfasten the claw to open the hook of the FFC holder, and remove the FFC cable.


Step 4
Claw
Hook
FFC
Antistatic shorting pin
FFC

CAUTION / Insert an antistatic shorting pin to the FFC cable of the optical pickup. (Refer to "Handling Precautions for Traverse Deck Optical Pickup" for the details.)

Step 5 Remove the screws.

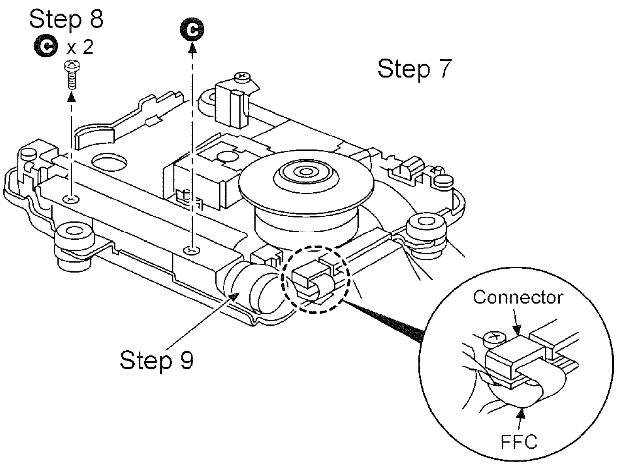
Step 6 Remove the traverse chassis.


Step 5
ⓑ x 3
ⓑ
ⓑ
Step 6

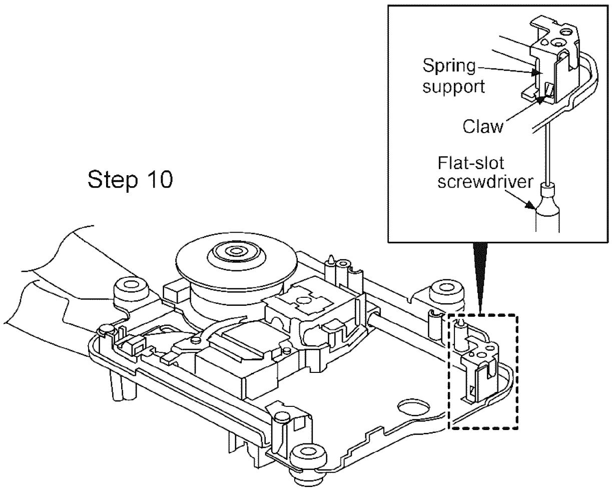
Step 7 Pull out the FFC cable from the connector.

Step 8 Remove the screws.

Step 9 Remove the traverse motor.

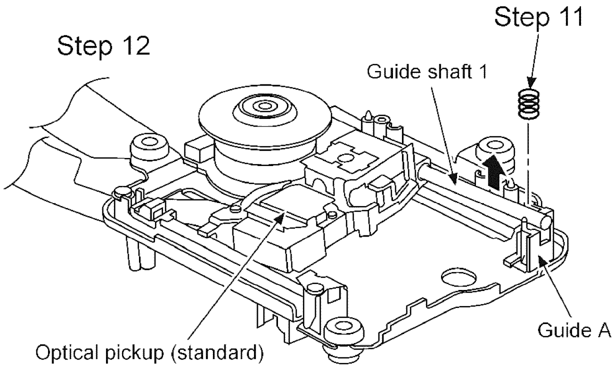

Step 8
C x 2
C
Step 7
Connector
FFC
Step 9

Step 10 Unfasten the claw to remove the spring support.


Spring support
Claw
Flat-slot screwdriver
Step 10

Step 11 Remove the spring.

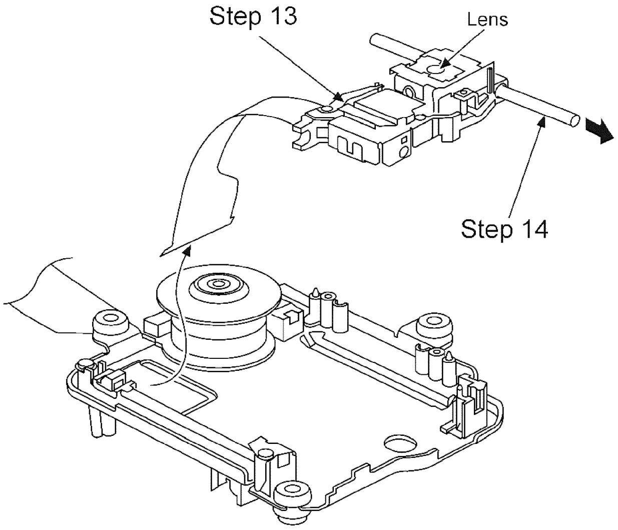
Step 12 Lift up the optical pickup (standard), and remove the Guide shaft 1 from the Guide A.


Step 11
Step 12
Guide shaft 1
Guide A
Optical pickup (standard)

CAUTION / Take care to avoid losing the removed spring.

Step 13 Remove the optical pickup (standard).

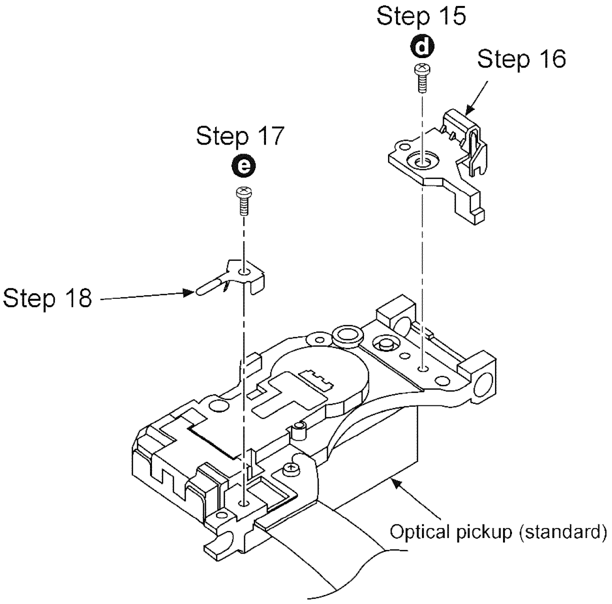
Step 14 Pull out the guide shaft 1.


Step 13
Lens
Step 14

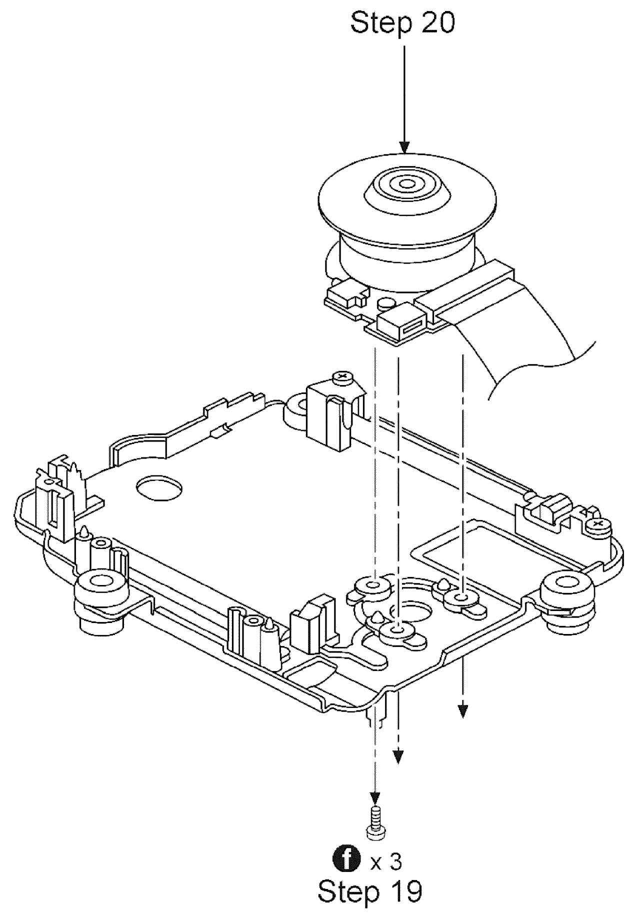
CAUTION /

1. **The optical pickup uses the extreme precision / technology, and is sensitive to shocks.**
2. **Do not touch the lens of the optical pickup.**

Step 15 Remove the screw.
Step 16 Remove the nut unit.
Step 17 Remove the screw.
Step 18 Remove the spring.


Step 15
d
Step 16
Step 17
e
Step 18
Optical pickup (standard)

CAUTION / After assembly, apply the screw lock.
Step 19 Remove the screws.
Step 20 Remove the spindle motor.


Step 20
f x 3
Step 19

CAUTION / After assembly, apply the screw lock.

8.2.5.1. Reassembly of Optical Pickup

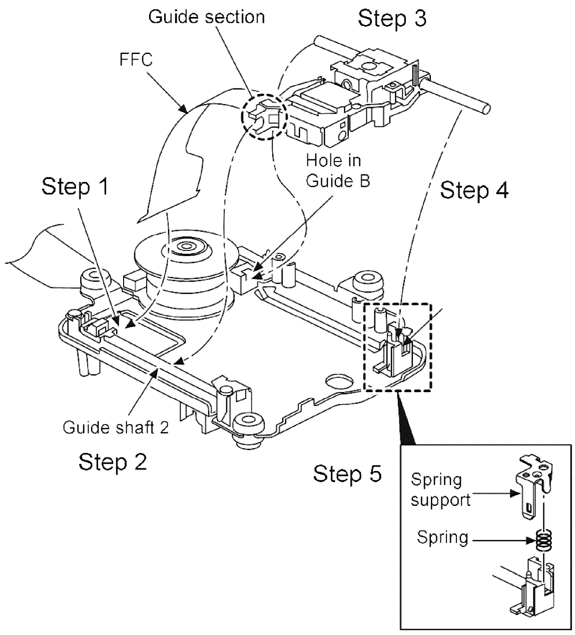
Step 1 Pass the FFC cable through the hole of the traverse base.

Step 2 Insert the Guide section into the Guide shaft 2.

Step 3 Insert the tip of the Guide shaft 1 into the hole of the Guide B.

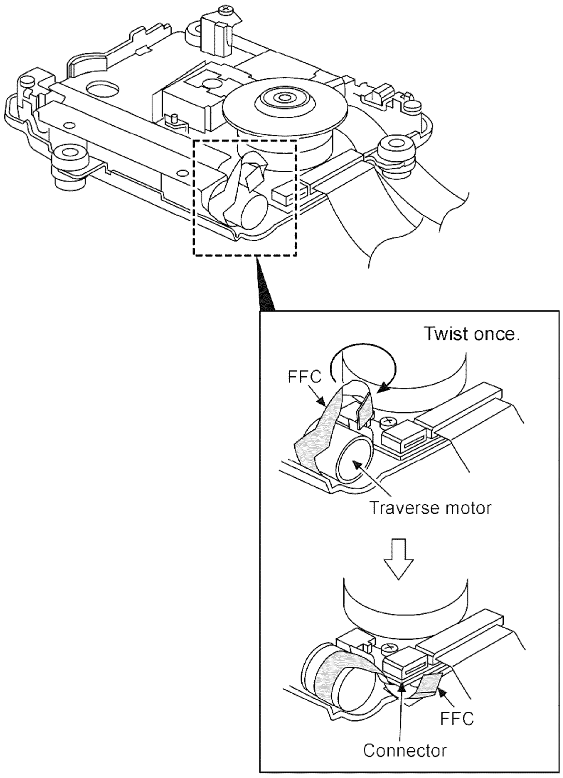
Step 4 Attach the guide shaft to the guide A.

Step 5 Attach the spring and spring support.


Guide section
Step 3
FFC
Hole in Guide B
Step 1
Step 4
Guide shaft 2
Step 2
Step 5
Spring support
Spring

8.2.5.2. Assembly of Traverse Motor

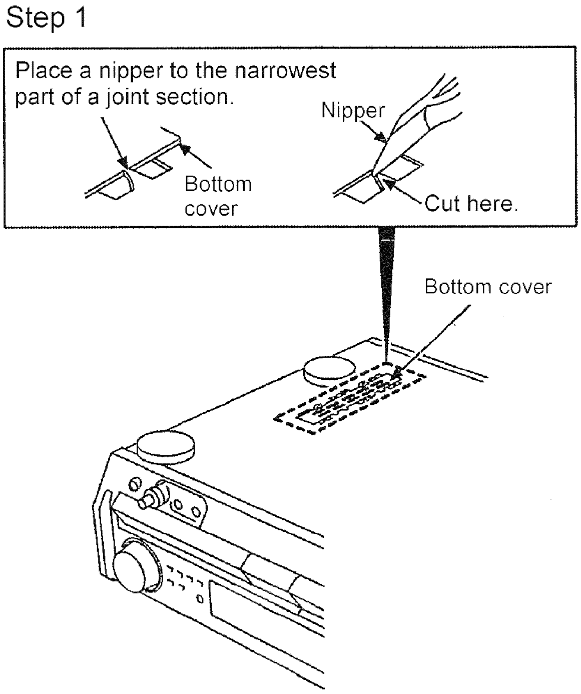
- Tie the FFC cable around the traverse motor. Then, twist the FFC cable once, and attach to the connector.


Twist once.
FFC
Traverse motor
FFC
Connector

8.2.6. Replacement of the Power IC and constant-voltage transistor

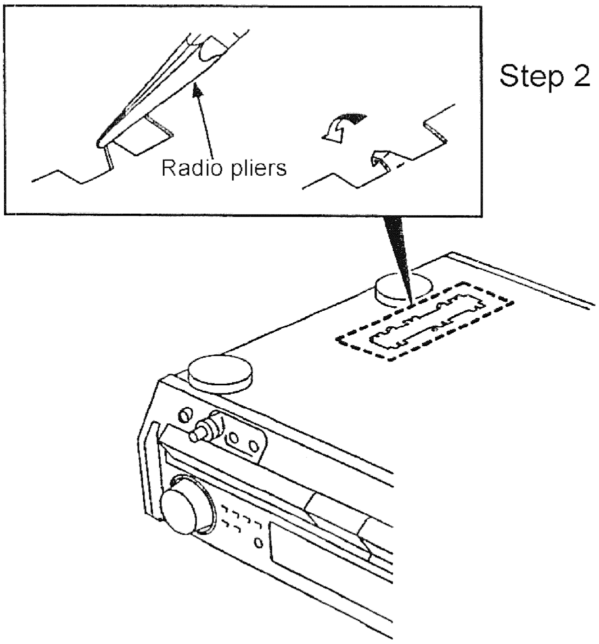
- Follow the instructions, Step 1 to Step 3 under Section 1.

Step 1 Cut the joint sections found in the bottom cover. (6 sections)

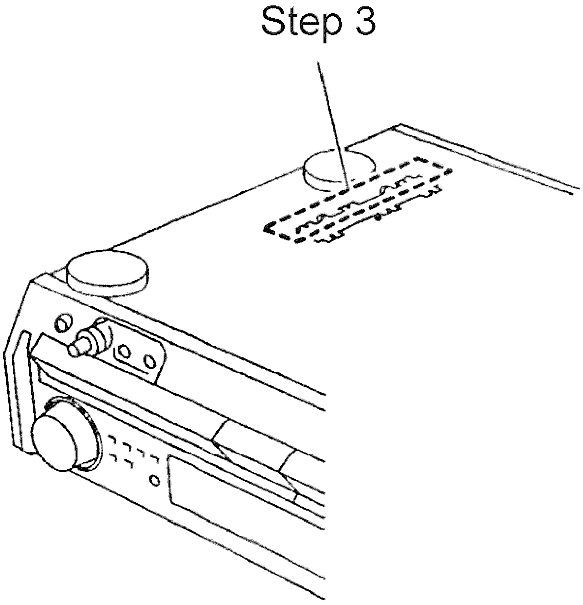

Place a nipper to the narrowest part of a joint section.
Step 1
Nipper
Bottom cover
Cut here.
Bottom cover

CAUTION / After replacement, the bottom cover will be reassembled. Do not lose it.

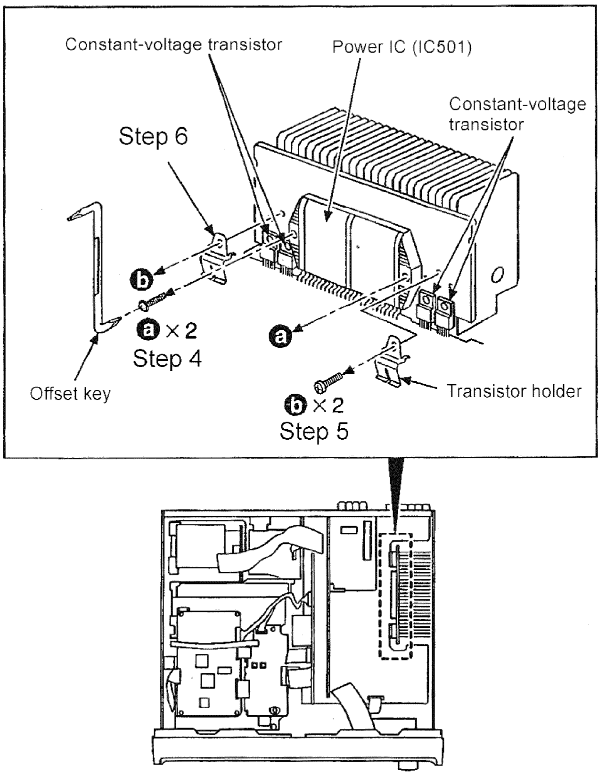
Step 2 Bend the cut sections of the bottom cover.


Step 2
Radio pliers

Step 3 Remove the solders of the power IC and constant-voltage transistor terminal.



Step 4 Remove the screws.
Step 5 Remove the screws.
Step 6 Remove the two transistor holders.

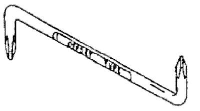

Constant-voltage transistor
Power IC (IC501)
Constant-voltage transistor
Step 6
b
a × 2
Step 4
a
Offset key
b × 2
Step 5
Transistor holder

CAUTION /

1. Before assembling the power IC and constant-voltage transistor, apply some compound grease (RFKX002 or compatible thermal diffusion agents) to the backsides of these units.
2. After replacement of the power IC or constant-voltage transistor, fasten the four screws securely.
3. Use an offset key to fasten the screws.

---Offset key---

- We recommend the PROTO offset key, model no. 34-1/4.

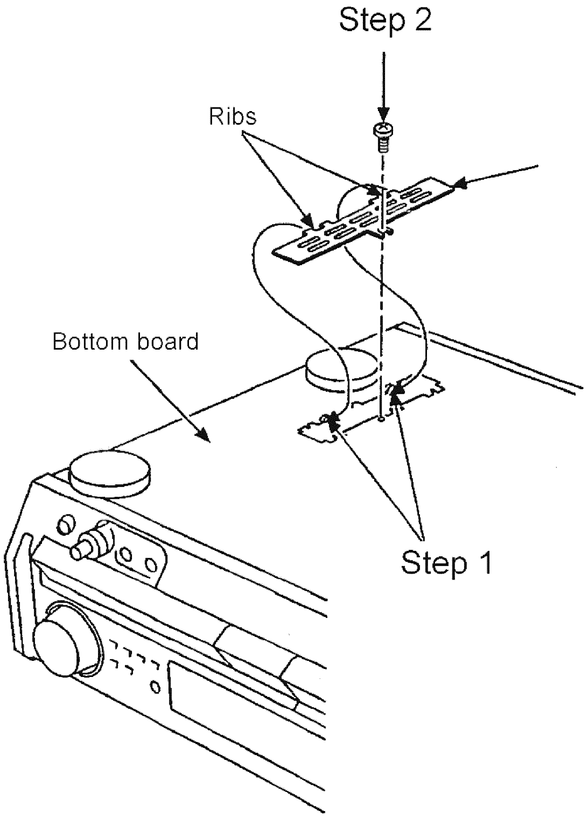


No.	✚	L
34¼	1 & 2	4¾"

8.2.6.1. Assemble of Bottom Cover

Step 1 Insert the ribs on the bottom cover to the protrusions of the bottom board, and fasten the screw.

Step 2 Screw [XTB3+8J]



9. Self-Diagnosis and Replacement of Optical Pickup

During repair, follow the instructions below to perform effective self-diagnosis operation and tilt adjustment. / Before using the self-diagnosis function, check that the message, “NO DISC” is displayed on the panel and that the optical pickup has not been replaced. Follow the guidelines to use the self-diagnosis function, and replace the existing optical pickup only when the current-electricity level of the laser drive exceeds 50.

Note) Press the POWER button to turn on the power, and take a level before the system is warmed up (within 3 minutes).

- Apply the self-diagnosis in case that the message, “NO DISC” is displayed on the panel, the system does not read a disc, or before replacing the optical pickup.

1. The message, “NO DISC” is displayed on the panel, or the system does not seem working properly.
2. Check for the current-electricity level of the laser drive. Check that there is no disc inserted. Press ▮ the button on the system and the SCREEN DISPLAY button on the remote control together. (Figure 5)

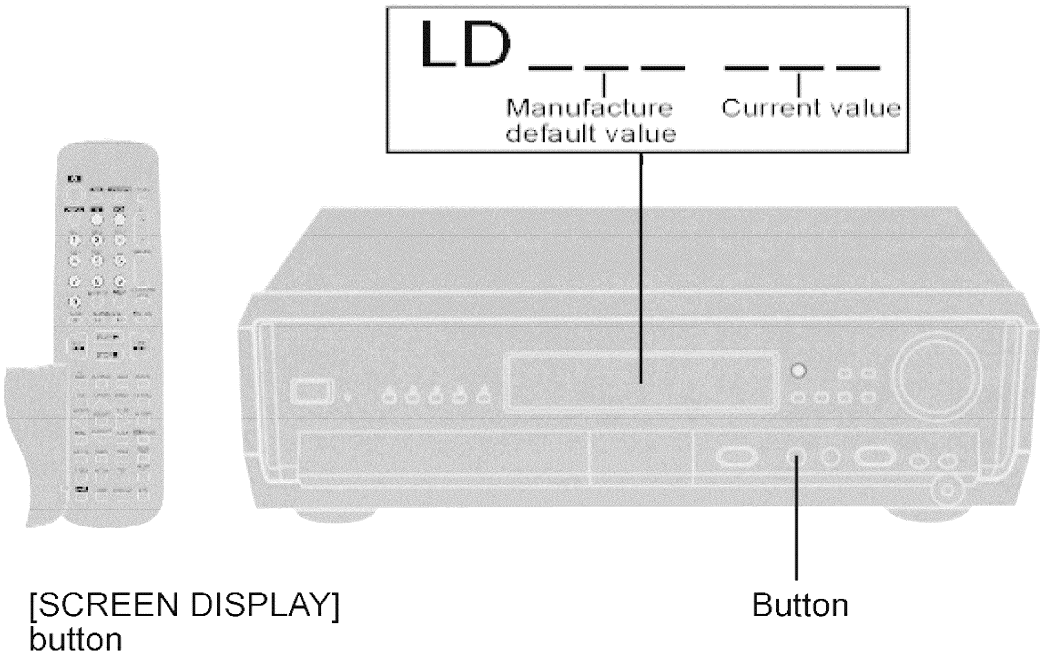


Figure 5

3. Skip to the next step if the level is 40 or below. If the level exceeds 50, replace the existing pickup. (Refer to “8.2 Procedures for replacement of main parts and disassembly/reassembly of parts”) / After replacement, repeat Step 2. If the level exceeds 40, replace with a new optical pickup as electrostatic break might occur during replacement.
4. Check the optical pickup level. If the level of the optical pickup without replacement is 50 or below, or the level of the replaced pickup is 40 or below, perform the tilt adjustment. (Refer to “11. Tilt adjustment for optical pickup”)
5. Initialize the system. Press ▮ the button on the system and the 10 button on the remote control together. The operation is completed.

10. Lock Mode for Demonstration

This set is equipped with the lock mode for the store demonstration.

Detail of Lock mode

Lock mode is for a domonstration at the store.

A disk tray can’t be operated in the lock mode in order to prevent the loss of disk in the store exhibition. / When it tries to open a disk tray, it is indicated with “LOCKED” on FL window and a disk tray does not open. / This model has two kinds of mode, lock mode A and lock mode B. / Lock mode A is invalid for a tray “OPEN/CLOSE” button. / Lock mode B is invalid for “OPEN/CLOSE” “PAUSE” “STOP” “SKIP/SEARCH” “SELECTOR” “DISK 1 to 5” button.

How to set to lock mode

- Lock mode A : Press and hold the “CD STOP” (locate on main body) button and additionaly press the “POWER” (main body or remote control) button, during power on selector is DVD/CD.
- Lock mode B : Press and hold the “CD PLAY” (locate on main body) button and additionaly press the “POWER” (main body or remote control) button, during power on selector is DVD/CD.

When in Lock mode “LOCKED” will appear on FL window only for 3 seconds and start to play the disk.

How to reset from lock mode

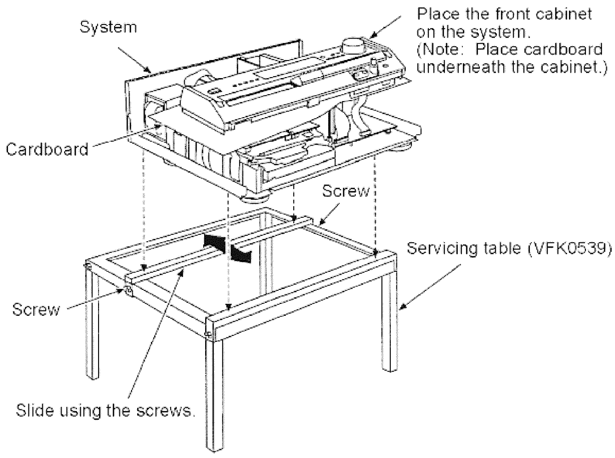
- Same operation for setting to Lock mode. (Lock mode A and Lock mode B)
- Switch off the power source.

11. Tilt Adjustment for Optical Pickup

11.1. Preparation for Adjustment

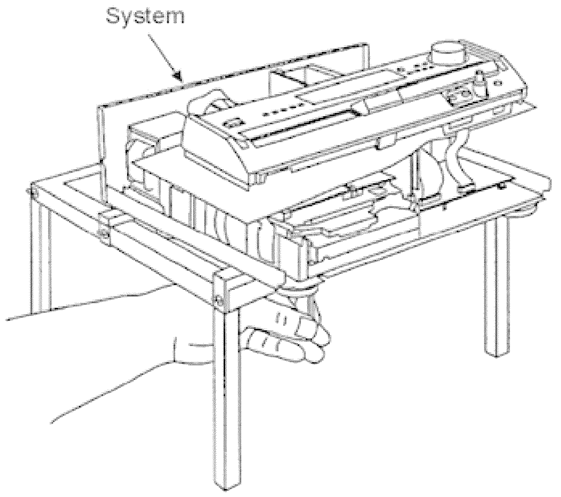
1. Follow the instructions, Step 1 to Step 5 under Section 2 of [8.2 Procedures for replacement of main parts and disassembly/reassembly of parts].
2. Remove the front panel. Prepare cardboard on the system, and place the panel there. (Figure 6)
3. Prepare a servicing table, and place the system there.

Figure 6


System
Place the front cabinet on the system.
(Note: Place cardboard underneath the cabinet.)
Cardboard
Screw
Servicing table (VFK0539)
Screw
Slide using the screws.

4. Adjust the tilt level from the underneath of the servicing table, using a hexagon screwdriver. (Figure 7) (Figure 8)

Figure 7

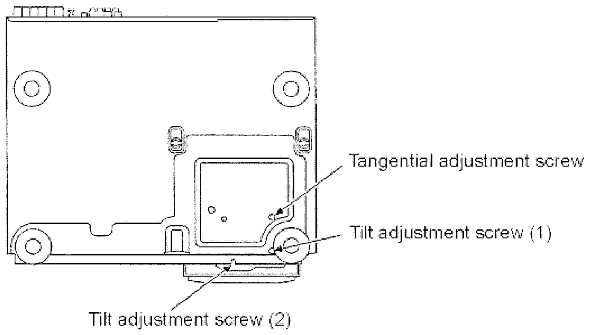


Insert a hexagon screwdriver into the bottom poles of the system for adjustment.

Figure 8

Location of adjustment screws

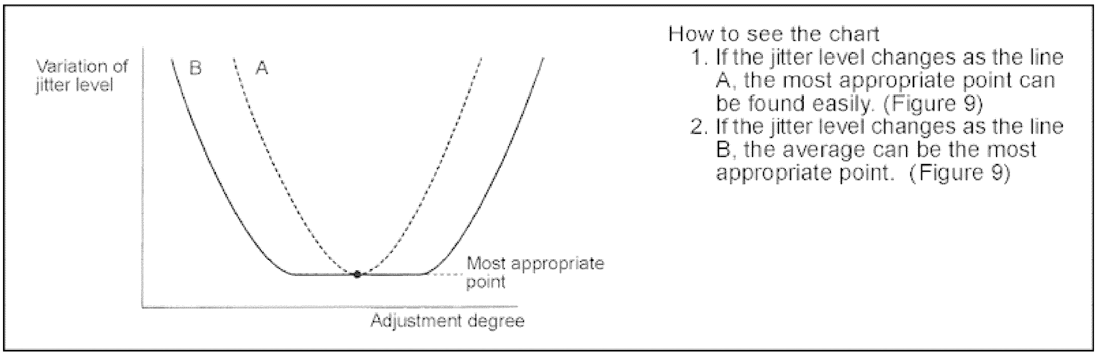
Bottom of System (The front cabinet is removed.)


Tangential adjustment screw
Tilt adjustment screw (1)
Tilt adjustment screw (2)

11.2. Adjustment of Optical Pickup

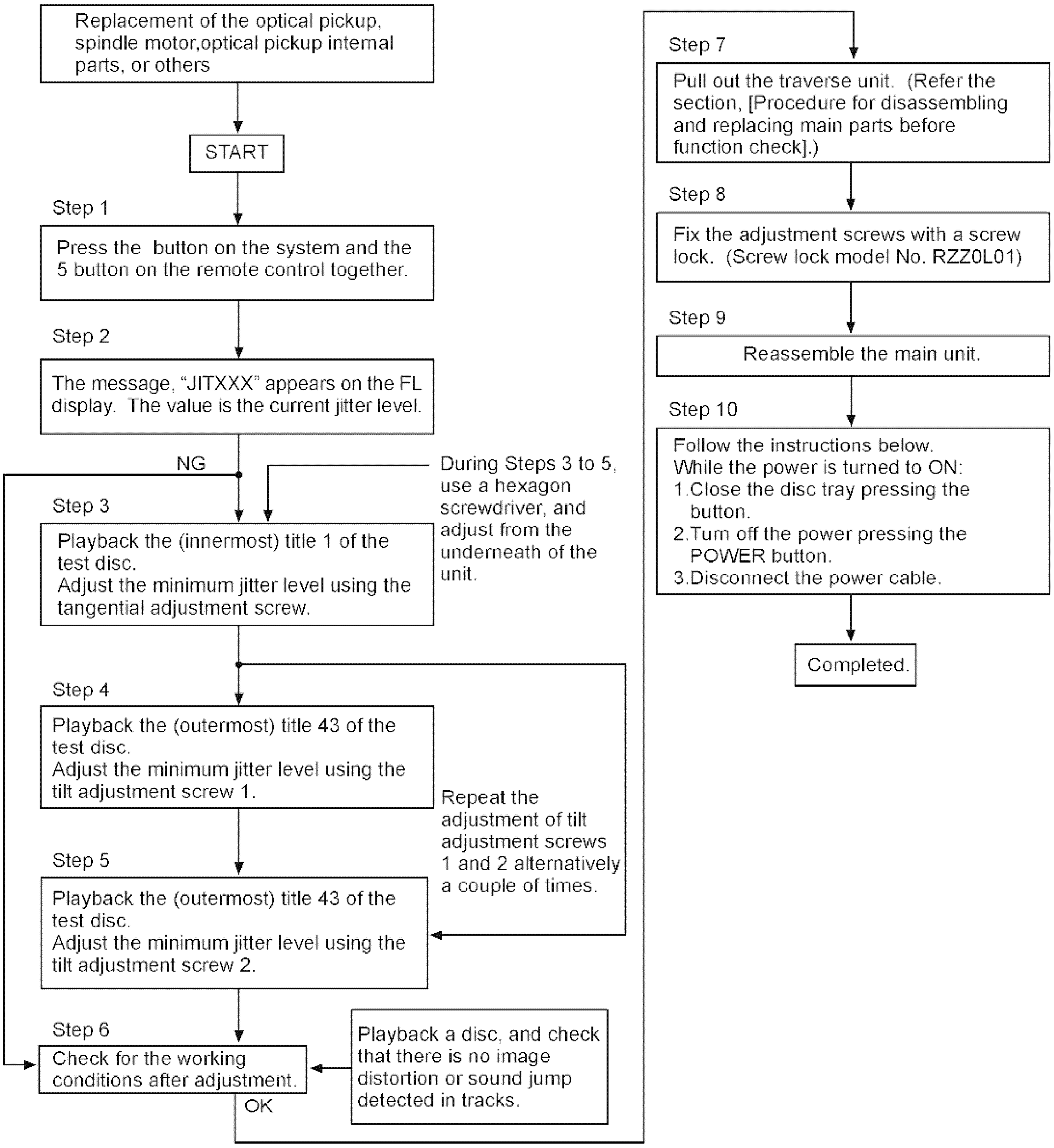
Measuring point	Adjustment point	Mode	Test disc
Service display on the main unit	Tangential adjustment screw Tilt adjustment screw	Track 1 (innermost) replay Track 43 (outmost) replay	DVDT-S15 or DVDT-S01
Required tools		Adjustment level	
Hexagon screwdriver (model No. JGS0100) Screw lock (model No. RZZ0L01)		Adjust to the minimum jitter level.	

Figure 9



How to see the chart

1. If the jitter level changes as the line A, the most appropriate point can be found easily. (Figure 9)
2. If the jitter level changes as the line B, the average can be the most appropriate point. (Figure 9)


Replacement of the optical pickup, spindle motor,optical pickup internal parts, or others
START
Step 1
Press the button on the system and the 5 button on the remote control together.
Step 2
The message, "JITXXX" appears on the FL display. The value is the current jitter level.
NG
During Steps 3 to 5, use a hexagon screwdriver, and adjust from the underneath of the unit.
Step 3
Playback the (innermost) title 1 of the test disc.
Adjust the minimum jitter level using the tangential adjustment screw.
Step 4
Playback the (outermost) title 43 of the test disc.
Adjust the minimum jitter level using the tilt adjustment screw 1.
Repeat the adjustment of tilt adjustment screws 1 and 2 alternatively a couple of times.
Step 5
Playback the (outermost) title 43 of the test disc.
Adjust the minimum jitter level using the tilt adjustment screw 2.
Step 6
Check for the working conditions after adjustment.
OK
Playback a disc, and check that there is no image distortion or sound jump detected in tracks.
Step 7
Pull out the traverse unit. (Refer the section, [Procedure for disassembling and replacing main parts before function check].)
Step 8
Fix the adjustment screws with a screw lock. (Screw lock model No. RZZ0L01)
Step 9
Reassemble the main unit.
Step 10
Follow the instructions below.
While the power is turned to ON:
1.Close the disc tray pressing the button.
2.Turn off the power pressing the POWER button.
3.Disconnect the power cable.
Completed.

Notes :

- When other parts, rather than the traverse unit, are replaced, adjustment may not be applied usually. If excessive distortion of image is observed, apply adjustment.
- Optical adjustment is not for the inside of the optical pickup.
- After replacing the traverse unit, adjustment is not usually required.

12. Self-Diagnosis Function and Service Mode

This system is equipped with the self-diagnosis function used for the module board and traverse deck.

12.1. Service Mode Table

Service mode is activated by pressing a combination of buttons on the unit and remote control.

Button on the unit	Button on the remote control	Application	Notes
TUNE MODE ■	0	Displays "DVD F_ _ _" for UHF screen.	Refer to the section, "12.2 Self-Diagnosis Function (UHF Display)".
	5	Used for tilt adjustment.	Refer to the section, "11. T Adjustment for Optical Pickup".
	6	Used for checking the segment number and wrapping system.	
	7	Used for checking the program version.	IC6302 check
	9	Displays the faulty operation detection of the optical pickup.	Used for the current-electricity level of t laser drive.
	SCREEN DISPLAY	Refer to the section, "9. Self-Diagnosis and Replacement of Optical Pickup."	
		Used for formatting the DVD player. (Restore the manufacture default setting.) *Applied when the microprocessor, its inner parts, or board is replaced.	
		Saves the laser power value.	

12.2. Self-Diagnosis Function for Module Board and Traverse Deck (UHF Display)

This system is equipped with the self-diagnosis function convenient for troubleshooting.

Display Method	Display	Diagnosis Details	Check points
Error code displayed during operation	DVD U11	Focus error	IC2001, IC2511, IC5201, Optical picku
	DVD H01	Disc tray loading error	IC2001, IC2511, Loading motor
	DVD H02	Spindle servo error	Spindle motor, IC2501, IC2001
	DVD H03	Traverse error	IC2511, IC2001, Stepping motor
	DVD H04	Tracking servo error	IC2001, IC2501, IC5201, Optical picku Disc
	DVD H05	Detection error	IC2511, IC2001 Stepping motor
	DVD H06	Power supply error	IC1021, IC1121, IC1151, IC6001
Press the ■ button on the unit and the "0" button on the remote control together.	DVD F0**	Disc formatting error	If you receive messages listed in the l refer to the section, "12.3 Repair Examples Based on Error Code".
	DVD F1**	Disc code error	
	DVD F2**	Decoder LS error	
	DVD F3**	SDRAM error	
	DVD F4**	ICC BUS error	
	DVD F5**	DSC	
	DVD F6**	ECC error	
	DVD F7**	Microprocessor error	
	DVD F8**	Microprocessor error	

12.3. Repair Examples Based on Error Code

Refer to this section for repair.

Error Code	Failure parts
F0**	Disc, IC7001
F103	Disc, IC7001
F4FF	IC6001
F500	Optical pickup, IC2001, IC5201, IC2511, IC2501
F501	IC2001, IC6201
F502	IC2501, IC2511, IC2001, IC5202
F504	IC5202, IC2001
F505	Disc, IC2501, IC2511, IC5202, IC2001
F506	Disc, Optical pickup, IC2001
F600	Disc, IC7001, IC5202, IC2001
F601	Disc, IC7001
F602	Disc, IC5202, IC2001
F603	Disc, IC5202, IC2001
F610	IC7001
F611	IC7001, IC5202, IC2001
F612	IC7001, IC5202, IC2001
F620	Laser drive circuit
F621	Laser drive circuit
F700	IC6201
F701	IC6201
F702	IC6201
F880	IC6201
F890	IC6201
F891	IC6201
F8A0	IC6201
F893	IC6302
F894	IC6303

13. Power Adjustment

13.1. Video Output (Brightness Signal) Adjustment

Apply this adjustment after replacing with a circuit board.

Measuring place	Adjustment place	Adjustment mode	Test disc
Video output terminal	VR1301 (DAC board)	Color bar 75% Playback (title 46):DVDT-S15 Playback (title 12):DVDT-S01	DVDT-S15 or DVDT-S
Required tools		Adjustment level	
Screwdriver, oscilloscope 200mV/div, 10µ sec/div		1000mVp-p±20mV	

Purpose: To maintain the compatibility of the video signal output.

1. Connect an oscilloscope to the video output terminal, and set to 75Ω.
2. Rotate the part, VR1301, and adjust the brightness signal (Y+S) level within the range of 1000mVp-p±20mV. (Figure 10) / (Figure 11)

Figure 10

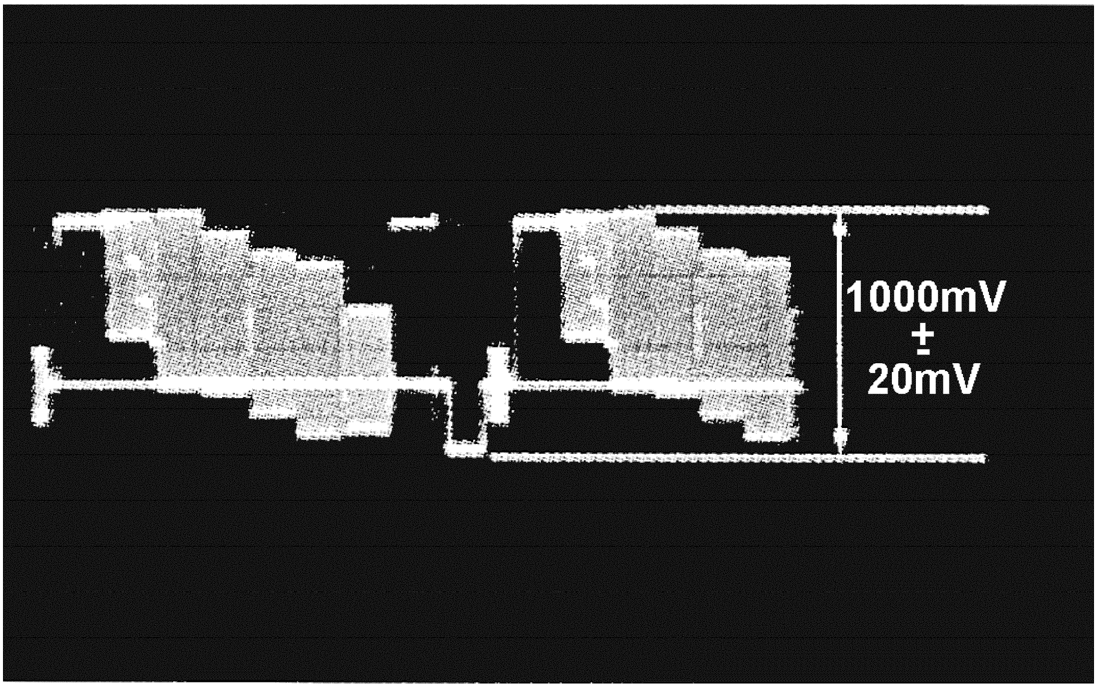
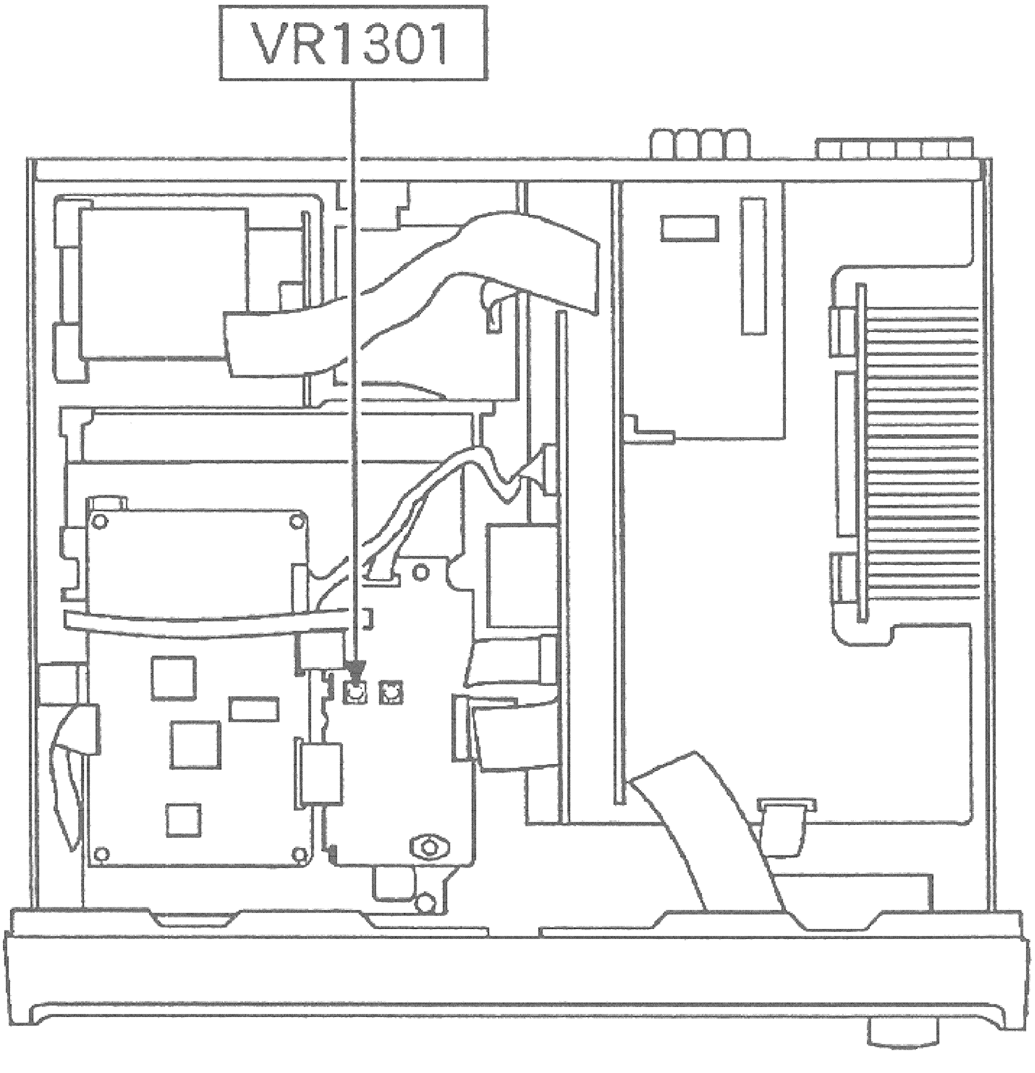


Figure 11



13.2. Video Output (Color Signal) Adjustment

Apply this adjustment after replacing with a circuit board.

Measuring place	Adjustment place	Adjustment mode	Test disc
Video output terminal	VR1301 (DAC board)	Color bar 75% Playback (title 46):DVDT-S15 Playback (title 12):DVDT-S01	DVDT-S15 or DVDT-S
Required tools		Adjustment level	
Screwdriver, oscilloscope 200mV/div, 10µ sec/div		675mVp-p±13mV	

Purpose: To maintain the compatibility of the video signal output.

1. Connect an oscilloscope to the video output terminal, and set to 75Ω.
2. Rotate the part, VR1302, and adjust the color signal (C) level within the range of 675mVp-p±13mV. (Figure 12) (Figure 13)

Figure 12

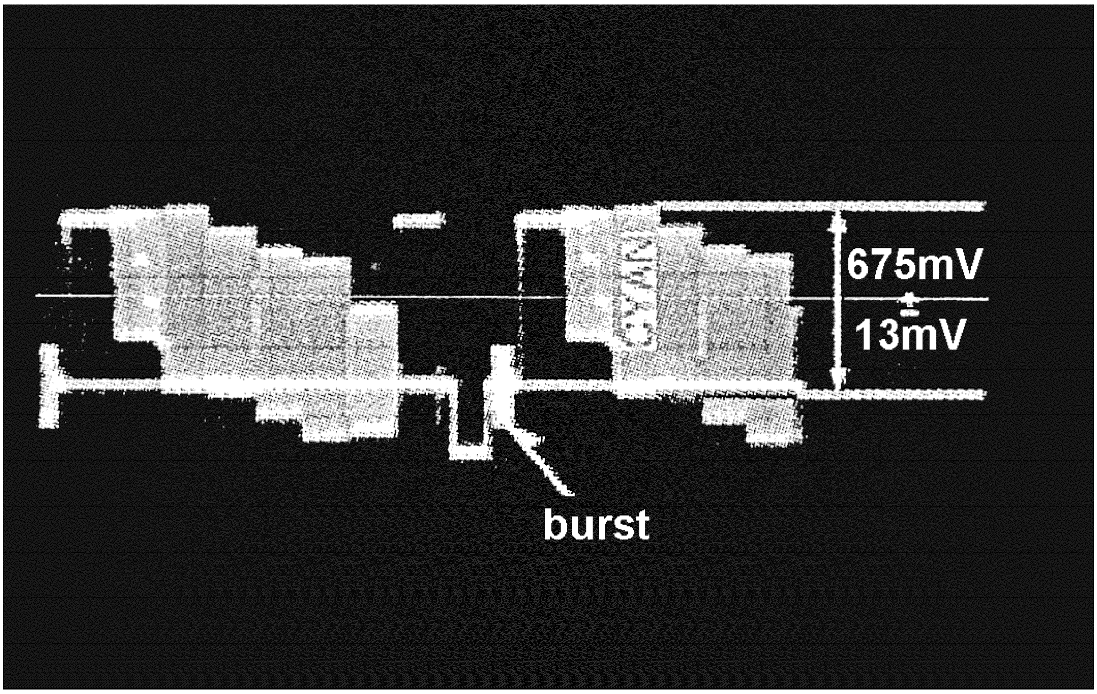
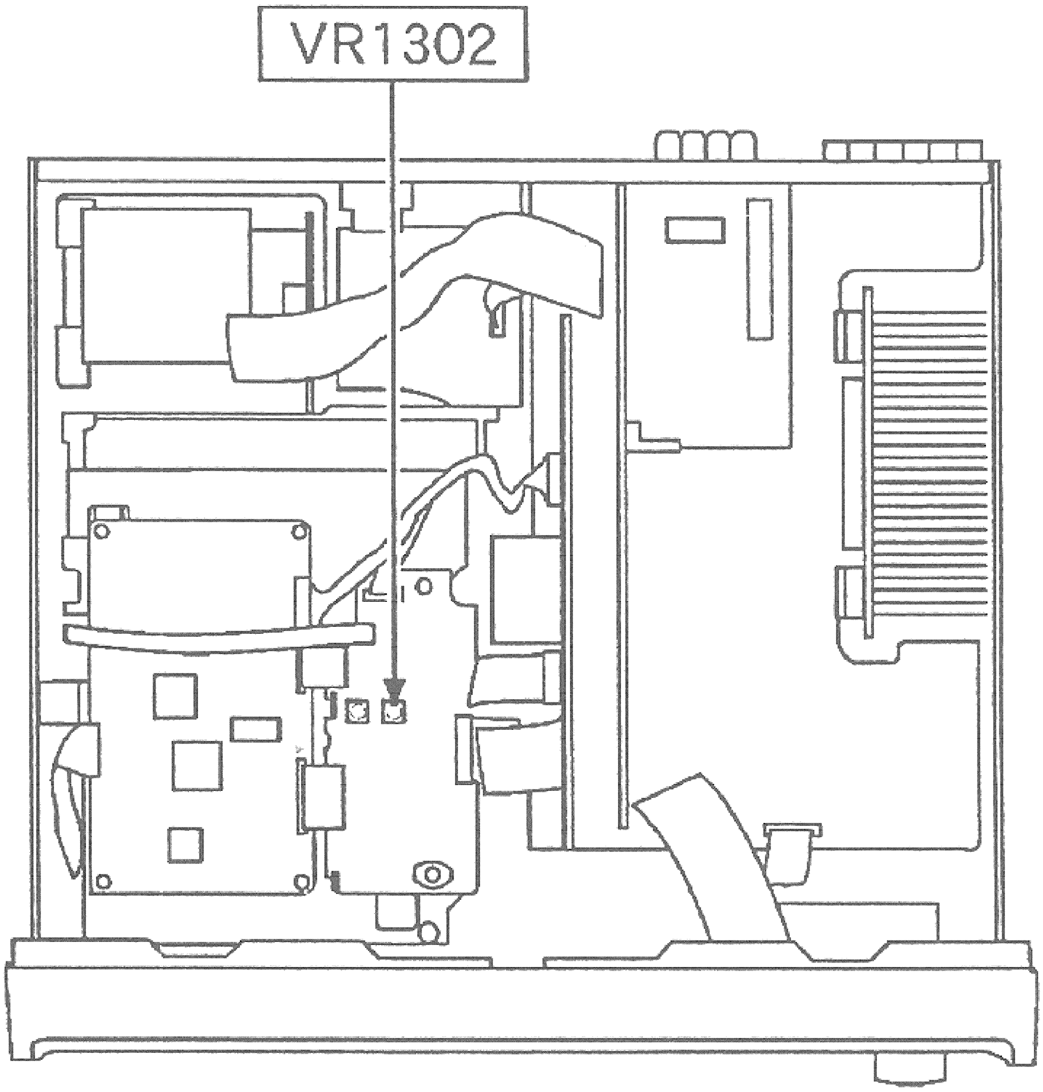


Figure 13



14. Measurement and Adjustments

TUNER SECTION

AM-IF ALIGNMENT

SIGNAL GENERATOR/ SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OR OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 3)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop antenna of receiver	450 kHz, 30% Mod. at 400 Hz	Point of non-interference (on/about 600 kHz)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument	Z102 (AM IFT)	Adjust for maximum outp

AM-RF ALIGNMENT

SIGNAL GENERATOR/ SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OR OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 3)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop antenna of receiver	522 kHz	Tuning capacitor fully closed	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument	Z101 (AM OSC Coil)	Adjust for maximum outp
Fashion a loop of several turns of wire and radiate a signal into the loop antenna of receiver	603 kHz	Tuning to signal	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument	Z101 (AM ANT Coil)	Adjust for maximum outp

14.1. Alignment Points

TUNER SECTION

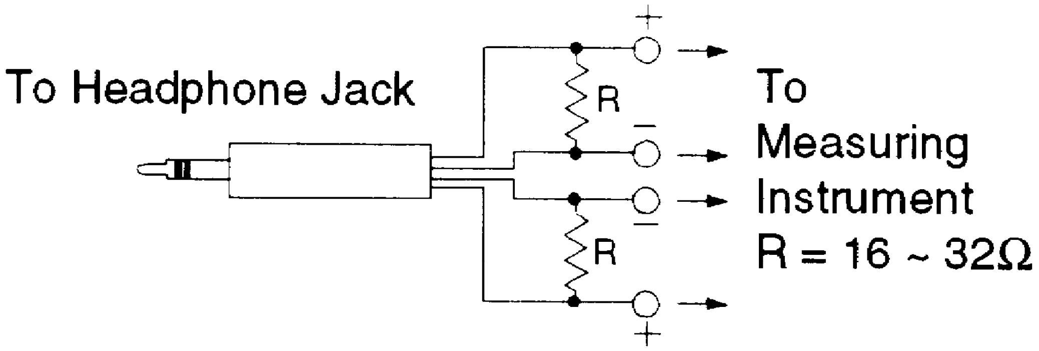


Fig. 2

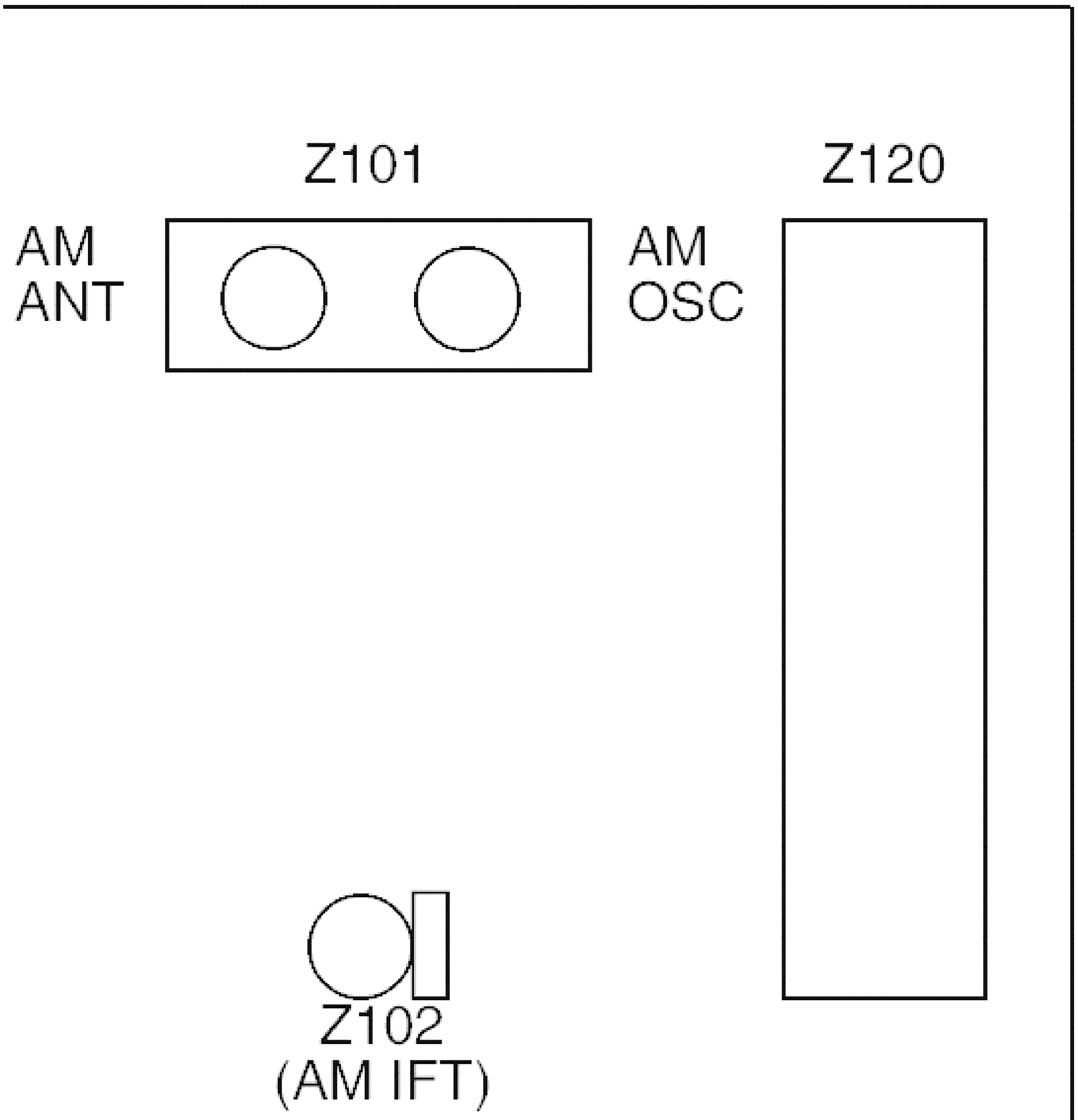
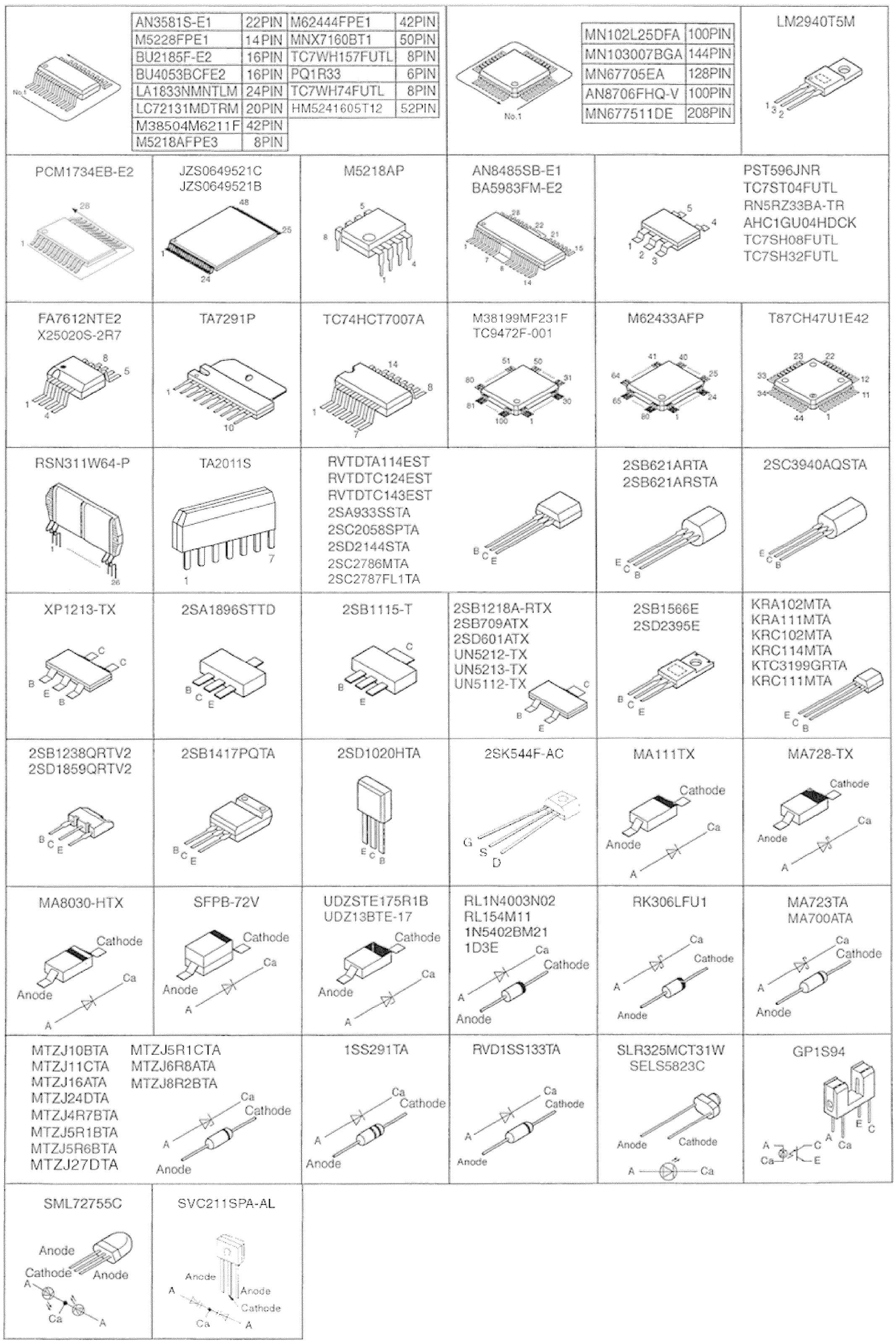

Z101
AM ANT
AM OSC
Z120
Z102 (AM IFT)

Fig. 3

15. Illustrations of ICs, Transistor and Diode


AN3581S-E1 22PIN
M5228FPE1 14PIN
BU2185F-E2 16PIN
BU4053BCFE2 16PIN
LA1833NMNTLM 24PIN
LC72131MDTRM 20PIN
M38504M6211F 42PIN
M5218AFPE3 8PIN
M62444FPE1 42PIN
MNX7160BT1 50PIN
TC7WH157FUTL 8PIN
PQ1R33 6PIN
TC7WH74FUTL 8PIN
HM5241605T12 52PIN
No.1
MN102L25DFA 100PIN
MN103007BGA 144PIN
MN67705EA 128PIN
AN8706FHQ-V 100PIN
MN677511DE 208PIN
No.1
LM2940T5M
PCM1734EB-E2
JZS0649521C
JZS0649521B
M5218AP
AN8485SB-E1
BA5983FM-E2
PST596JNR
TC7ST04FUTL
RN5RZ33BA-TR
AHC1GU04HDCK
TC7SH08FUTL
TC7SH32FUTL
FA7612NTE2
X25020S-2R7
TA7291P
TC74HCT7007A
M38199MF231F
TC9472F-001
M62433AFP
T87CH47U1E42
RSN311W64-P
TA2011S
RVTDTA114EST
RVTDTC124EST
RVTDTC143EST
2SA933SSTA
2SC2058SPTA
2SD2144STA
2SC2786MTA
2SC2787FL1TA
2SB621ARTA
2SB621ARSTA
2SC3940AQSTA
XP1213-TX
2SA1896STTD
2SB1115-T
2SB1218A-RTX
2SB709ATX
2SD601ATX
UN5212-TX
UN5213-TX
UN5112-TX
2SB1566E
2SD2395E
KRA102MTA
KRA111MTA
KRC102MTA
KRC114MTA
KTC3199GRTA
KRC111MTA
2SB1238QRTV2
2SD1859QRTV2
2SB1417PQTA
2SD1020HTA
2SK544F-AC
MA111TX
MA728-TX
MA8030-HTX
SFPB-72V
UDZSTE175R1B
UDZ13BTE-17
RL1N4003N02
RL154M11
1N5402BM21
1D3E
RK306LFU1
MA723TA
MA700ATA
MTZJ10BTA
MTZJ11CTA
MTZJ16ATA
MTZJ24DTA
MTZJ4R7BTA
MTZJ5R1BTA
MTZJ5R6BTA
MTZJ27DTA
MTZJ5R1CTA
MTZJ6R8ATA
MTZJ8R2BTA
1SS291TA
RVD1SS133TA
SLR325MCT31W
SELS5823C
GP1S94
SML72755C
SVC211SPA-AL
B C E
G S D
Anode
Cathode
A
Ca

16. Terminal Functions of ICs

16.1. IC451 (M38504M6211F): System Control

Pin No.	Code	I/O	Description
1	VCC	I	Power connection terminal
2	VREF	I	Reference voltage input terminal
3	AVSS	-	Reference voltage input terminal (Connected to GND.)
4	C/SW OUT	-	Not in use. Open.
5	PWCONT	O	DVD module power control output terminal
6	SYNC	I	Power-failure detection signal input terminal
7	MUTE	O	Mute control output terminal
8	B REQ	I	Serial communication request signal input terminal
9	B CS	O	Serial communication chip select signal output terminal
10	B CLK	O	Serial communication clock signal output terminal
11	DATA 0	O	Serial communication data signal output terminal
12	DATA 1	I	Serial communication data signal input terminal
13	CLS	O	Tray close signal output terminal
14	OPN	O	Tray open signal output terminal
15	CNVss	-	Power input terminal (Connected to GND, through resistance.)
16	TEST	I	Test mode signal input terminal
17	ECS	-	Output terminal of serial signal to EEPROM (Not in use open.)
18	RESET	I	Reset signal input terminal
19	X IN	I	Crystal oscillator circuit input terminal (f=8MHz)
20	X OUT	O	Crystal oscillator circuit output terminal (f=8MHz)
21	VSS	-	Power input terminal (Connected to GND.)
22	LED STB	-	Output terminal of serial signal to LED driver
23	LED/ECLK	-	Output terminal of serial signal to EEPROM (Not in use open.)
24	LED/EDTA	I/O	Input and output terminal of serial signal to LED driver (Connected to GND, through resistance.)
25	LED CLR	-	Output terminal of latch clear signal to LED driver (Not i use and open.)
26	PLG	O	Plunger control signal output terminal
27	SW5	I	Bottom switch detection signal input terminal
28	PSTN	I	Position sensor detection signal input terminal
29	SW2	I	Tray position 2 detection switch input terminal
30	SW1	I	Tray position 1 detection switch input terminal
31	SW3	I	Tray open detection switch input terminal
32	CCW	O	Motor drive control signal output terminal (forward rotati
33	CW	O	Motor drive control signal output terminal (reverse rotati
34	HALH	O	Motor drive control signal output terminal (speed)
35	DVD CLK	I	Input terminal of serial communication clock signal to D module
36	DVD CMD	I	Input terminal of serial communication command signal DVD module
37	DVD STAT	I	Input terminal of serial communication status signal to D module
38	PLG VOLT	I	Plunger voltage failure detection signal input terminal
39	SW4	I	Clump switch detection signal input terminal
40	KEY2	-	Operation key 2 signal input terminal (Connected to GN
41	KEY1	-	Operation key 1 signal input terminal (Connected to GN

42	CSEL	I	Chip select signal input terminal

17. Block Diagrams

18. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)
Note:

(For Panel Circuit, Tact Switch and CD Tact Switch)

S621
Power switch

S622
DISC 1 select switch

S623
DISC 2 select switch

S624
DISC 3 select switch

S625
DISC 4 select switch

S626
DISC 5 select switch

S631
FM mode, pause select switch

S632
FWD play, tune adjust up switch

S633
Reverse play, tune adjust down switch

S634
Play/Memory select switch

S635
Open/close, eject switch

S636
Tune mode, stop select switch

S641
Dolby pro logic select switch

S642
Virtual rear select switch

S643
Multi rear select switch

S644
Center_Focus select switch

S645
Sub woofer lever select switch

S646
SFC select switch

S647
Selector switch

VR601

Volume control

VR603

Mic volume control

(For DAC Circuit)

VR1301

Y level adjustment VR

VR1302

C level adjustment VR

(For Loading Motor Circuit, Detecting Switch (1) Circuit and Detecting Switch (2) Circuit)

SW1, SW2

Tray position switch

SW3

Tray open switch

SW4

CD offset detect switch

SW5

Spindle bottom position detect switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

( ) : CD 「 」: FM < > : AM

- **Importance safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer´s specified parts shown in the parts list.

Caution!

IC, LSI and VLSI are sensitive to static electricity.

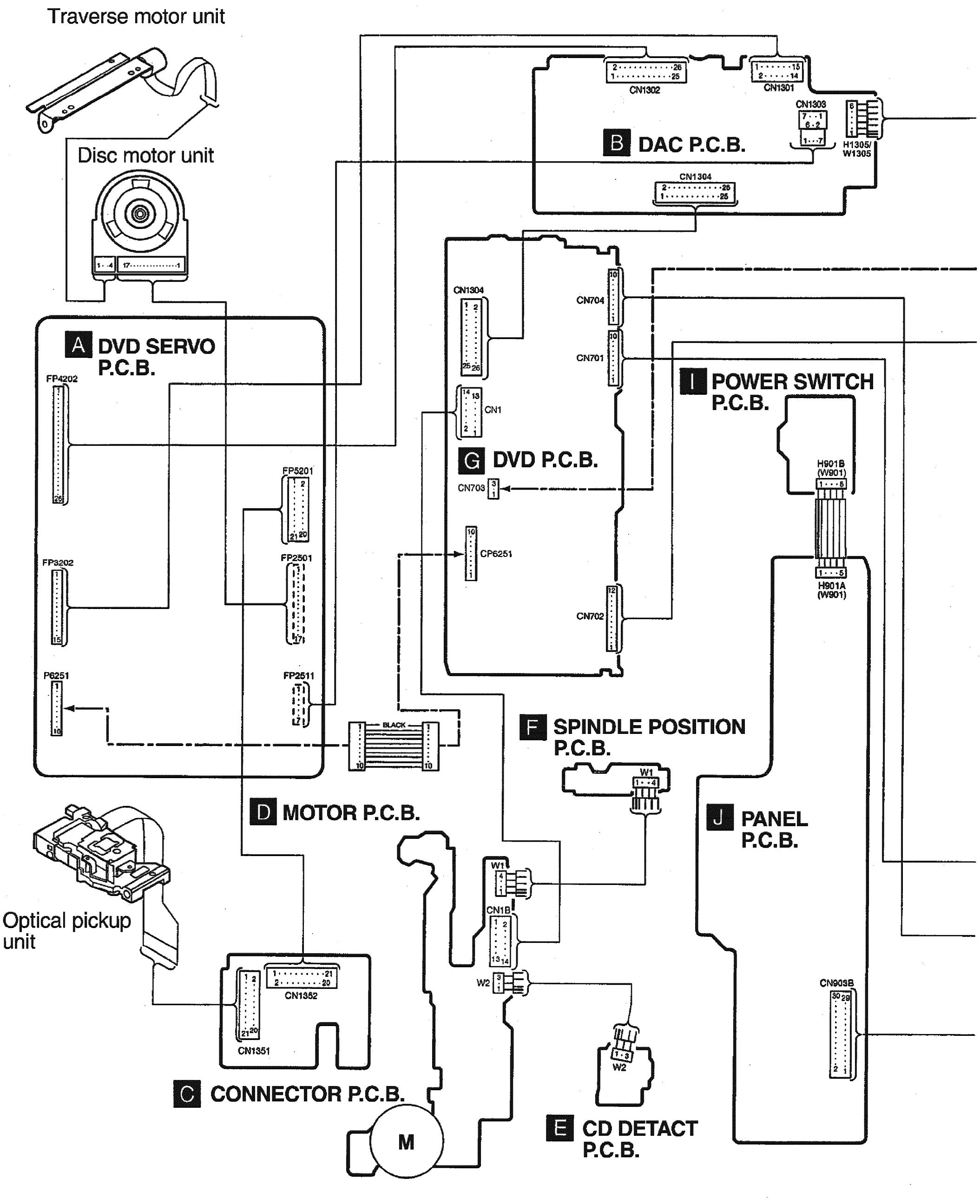
Secondary trouble can be prevented by taking care during repair.

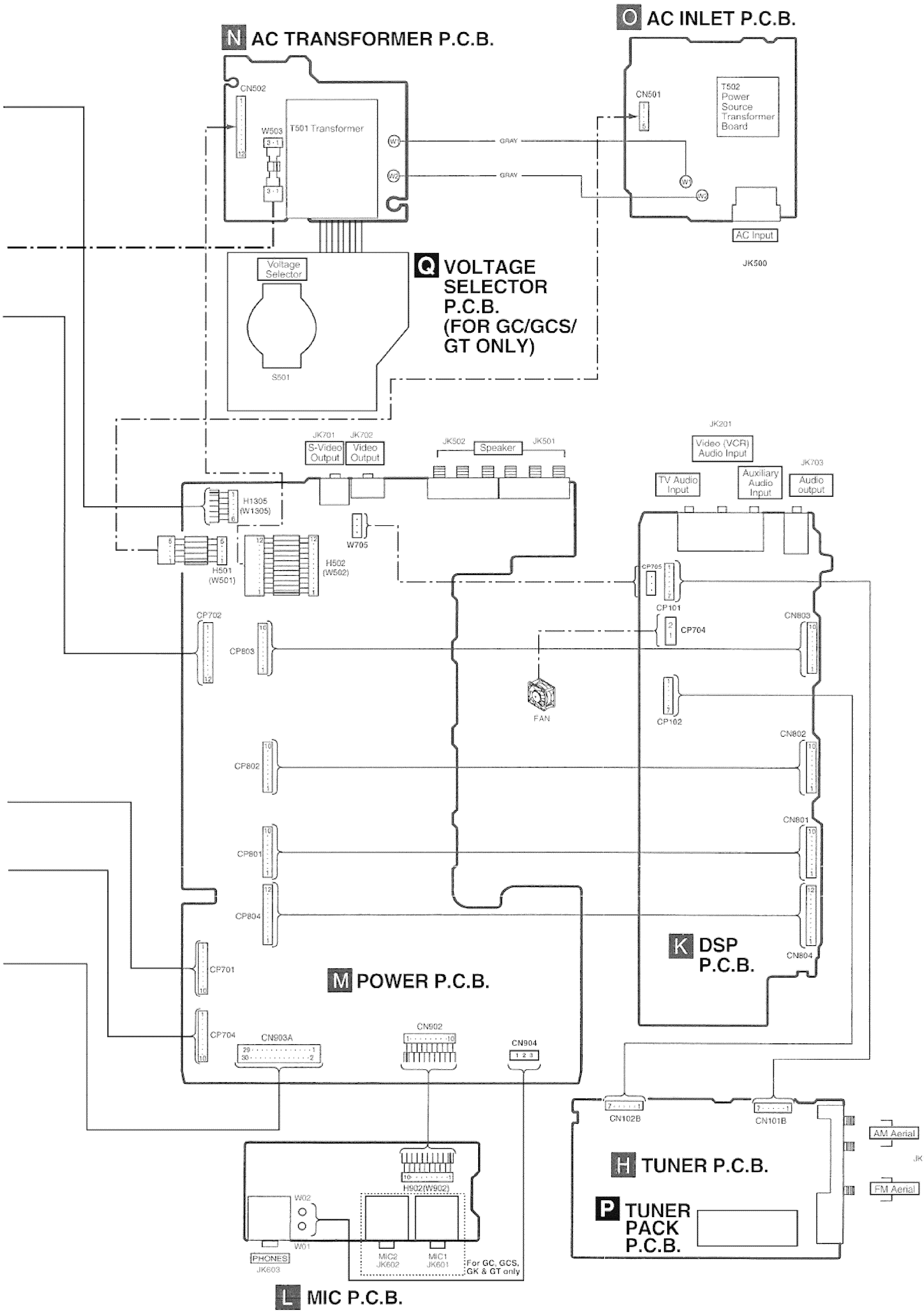
- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

19. Printed Circuit Boards

Note : Circuit board diagrams may be modified at any time with the development of new technology.

20. Wiring Diagram


Traverse motor unit
Disc motor unit
A DVD SERVO P.C.B.
FP4202
FP3202
P6251
FP5201
FP2501
FP2511
BLACK
B DAC P.C.B.
CN1302
CN1301
CN1303
H1305/W1305
CN1304
G DVD P.C.B.
CN1304
CN704
CN701
CN1
CN703
CP6251
CN702
I POWER SWITCH P.C.B.
H901B (W901)
H901A (W901)
F SPINDLE POSITION P.C.B.
W1
D MOTOR P.C.B.
W1
CN1B
W2
J PANEL P.C.B.
CN903B
Optical pickup unit
CN1352
CN1351
C CONNECTOR P.C.B.
M
W2
E CD DETACT P.C.B.


O AC INLET P.C.B.
N AC TRANSFORMER P.C.B.
CN502
W503
T501 Transformer
GRAY
GRAY
CN501
T502 Power Source Transformer Board
AC Input
JK500
Voltage Selector
S501
Q VOLTAGE SELECTOR P.C.B. (FOR GC/GCS/ GT ONLY)
JK701
JK702
S-Video Output
Video Output
JK502
Speaker
JK501
JK201
Video (VCR) Audio Input
TV Audio Input
Auxiliary Audio Input
JK703
Audio output
H1305 (W1305)
H501 (W501)
H502 (W502)
W705
CP705
CP101
CP704
CN803
CP702
CP803
FAN
CP102
CN802
CP802
CN801
CP801
CP804
CN804
K DSP P.C.B.
CP701
M POWER P.C.B.
CP704
CN903A
CN902
CN904
CN102B
CN101B
AM Aerial
JK101
FM Aerial
H TUNER P.C.B.
P TUNER PACK P.C.B.
H902(W902)
W02
W01
PHONES
JK603
MIC2
JK602
MIC1
JK601
For GC, GCS, GK & GT only
L MIC P.C.B.

21. Parts Location and Replacement Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

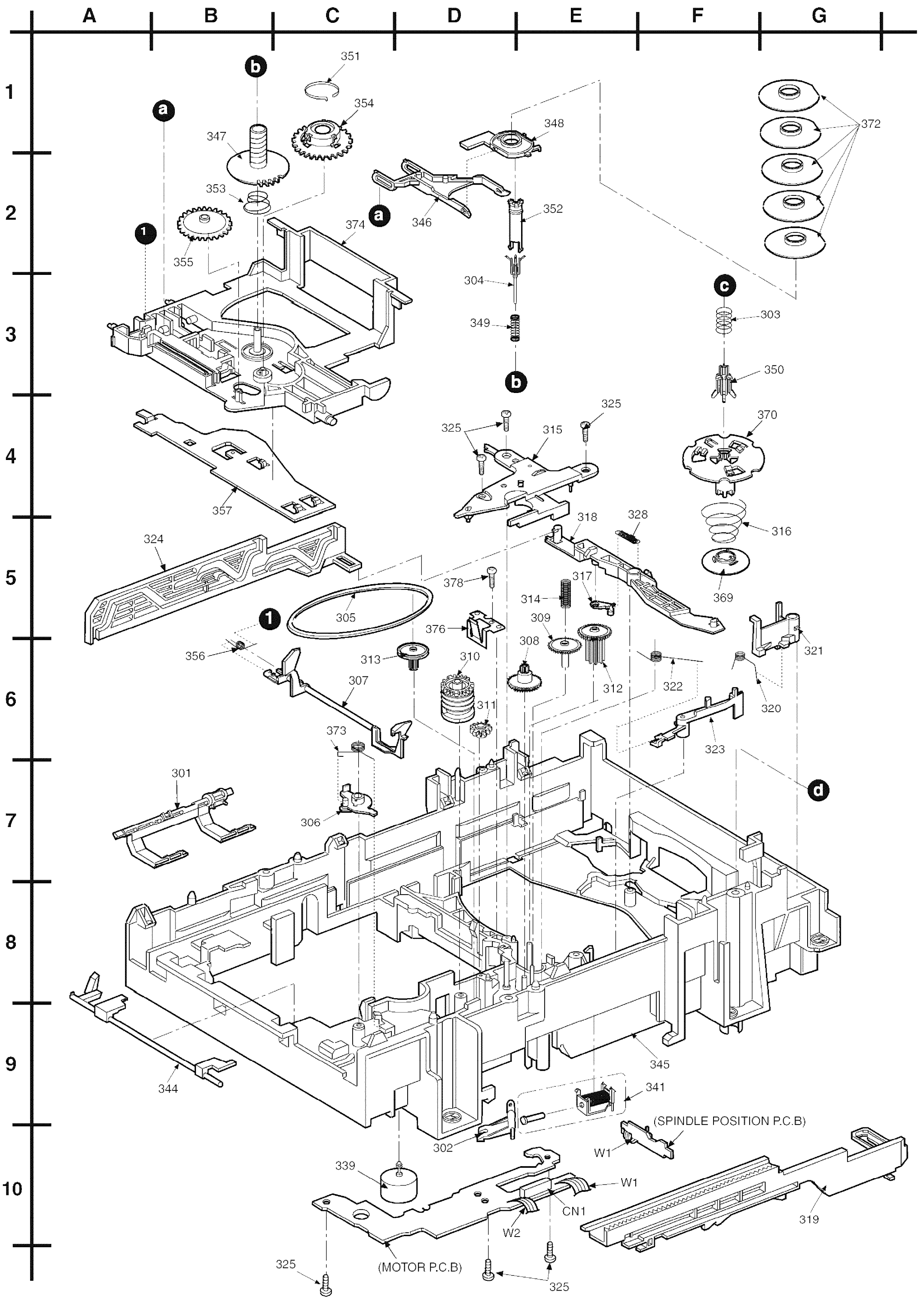
  When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)
  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on page 5.
- ACHTUNG:
  Die Lasereinheit nicht zerlegen.
  Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.
- Capacitor values are in microfarads (µF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws govening part and product retention. After the end of this period, the assembly will no longer be available.
- [M] Indicates in the Remarks columns indicates parts supplied by **MESA.**
- [SPC] indicated in the remarks column indicates source of supply.
- The “(SF)” mark denotes the standard part.
- Remote Control Unit : Supply period for three years from terminal of production.
- Reference for O/I book languages are as follows:

Ar : Arabic
Cf : Canadian French
Cz : Czech
Da : Danish
Du : Dutch
En : English
Fr : French
Ge : German
It : Italian
Ko : Korean
Po : Polish
Ru : Russian
Sp : Spanish
Sw : Swedish
Co : Traditional Chinese
Cn : Simplified Chinese

21.1. CD Loading Mechanism

21.1.1. CD Loading Mechanism Parts Location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(SPINDLE POSITION P.C.B)
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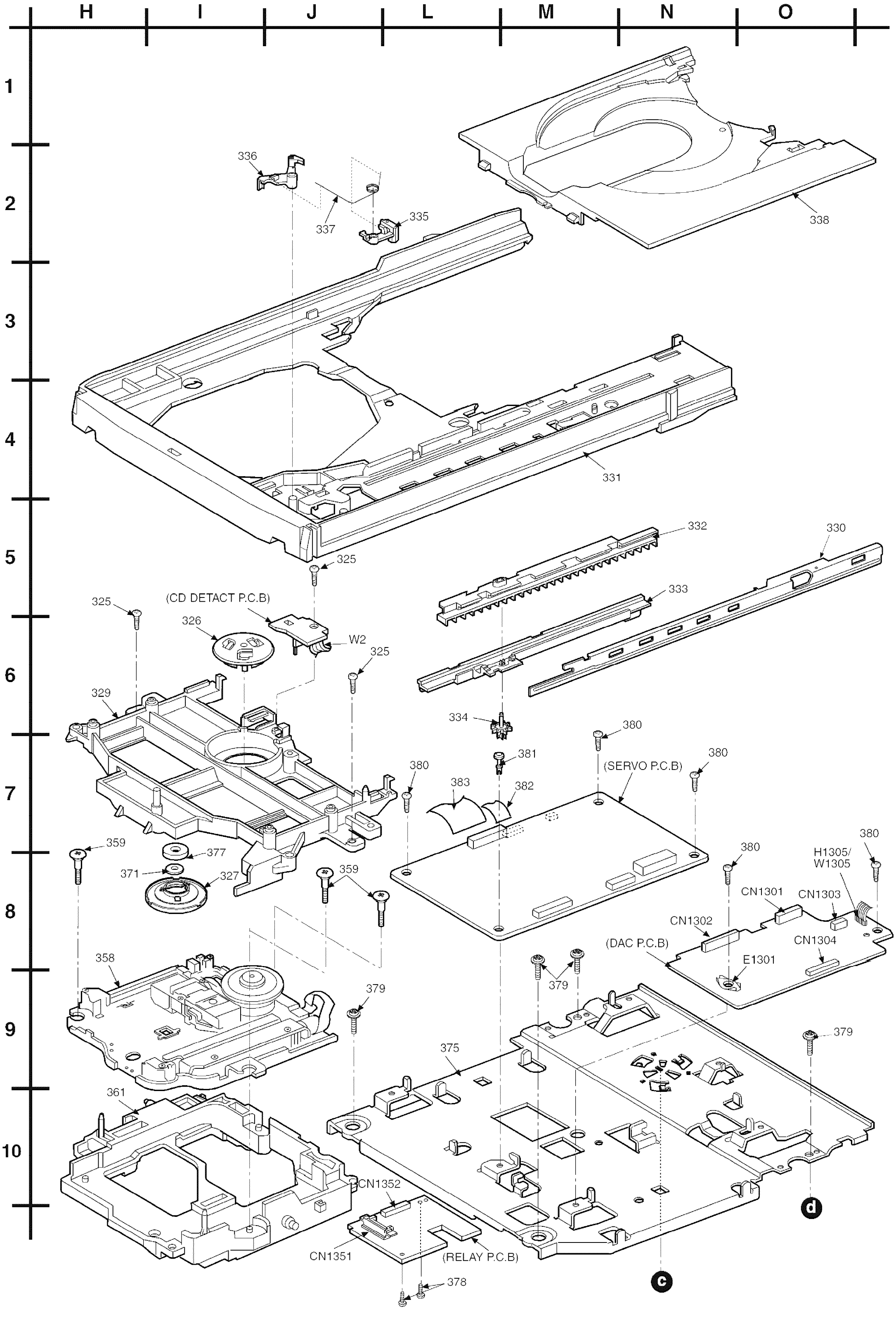
W1
CN1
W2
(MOTOR P.C.B)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(CD DETACT P.C.B)
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W2
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(SERVO P.C.B)
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H1305/
W1305
CN1301
CN1303
CN1302
CN1304
(DAC P.C.B)
E1301
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CN1352
CN1351
(RELAY P.C.B)
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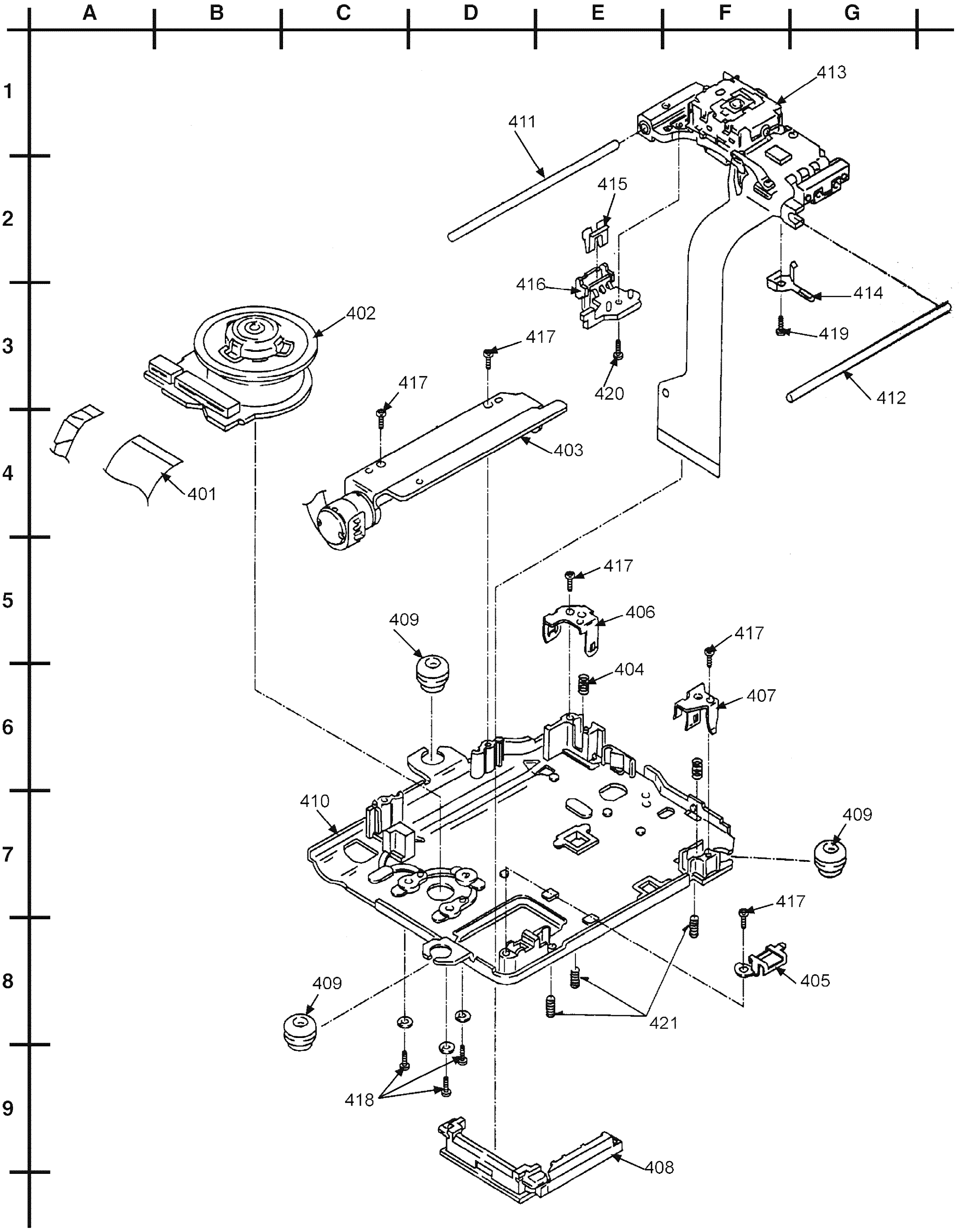
c
d

21.1.2. DVD Parts Location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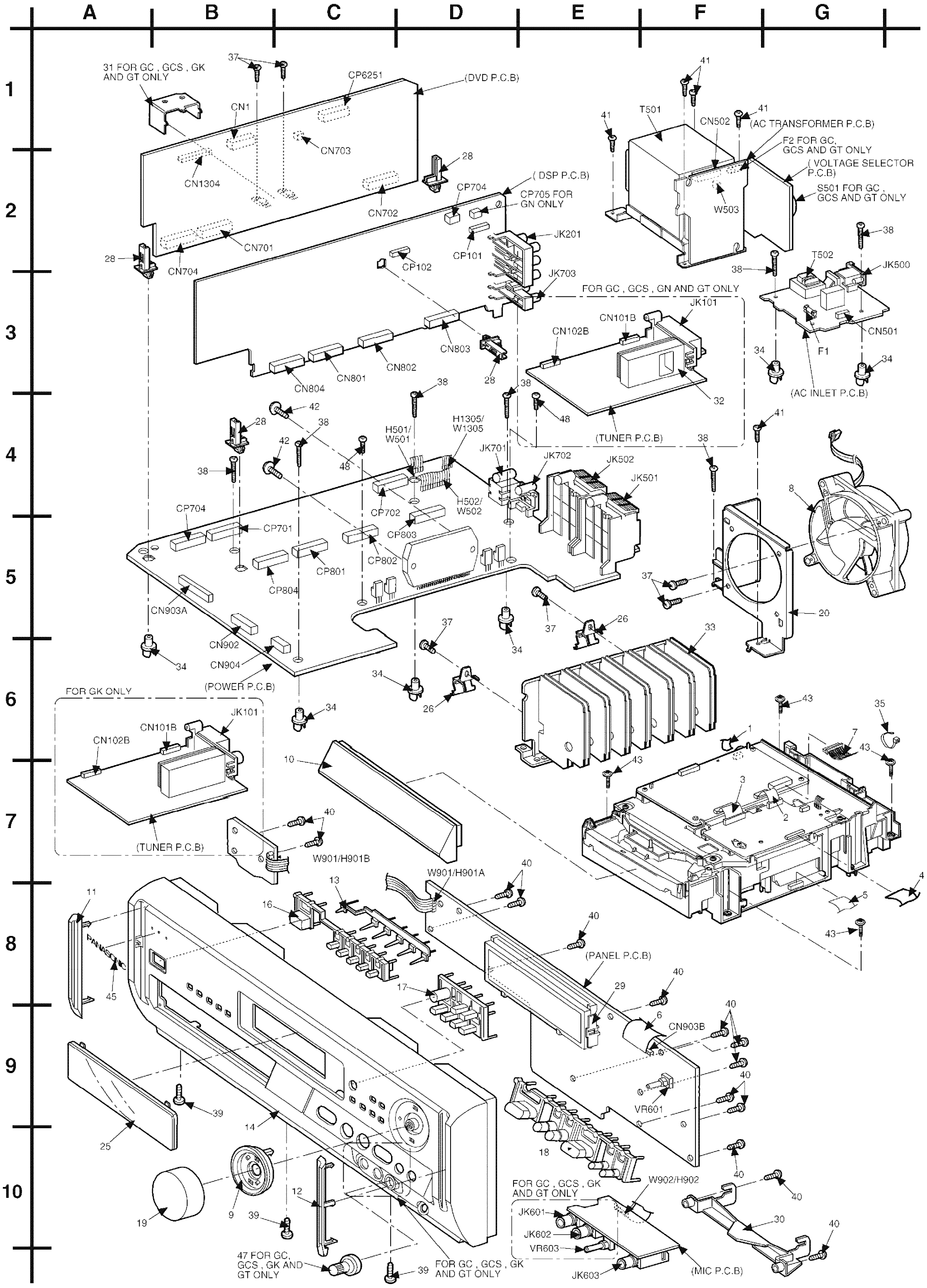
21.1.3. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRV CAM GEAR	[M]
311	RDG0428	TRV RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGE GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK LEVER	[M]
322	RME0257	TRAY LOCK LEVER SPRING	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR1235-W	FIXED PLATE	[M]
327	RMR1234-K	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAYBASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR ASS’Y	[M]
341	RSJ0003	SOLENOLD ASS’Y	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS’Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR ‘A’	[M]
355	RDG0431	RELAY GEAR ‘B’	[M]
356	RME0262	DISK LEVER SP.	[M]
357	RMA1105	SUPPORT PLATE	[M]
358	DPT-3ATU-AD	TRAVERSE MECHA	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
359	VHD1223	FLOATING SCREW	[M]
361	RMR1236-K	TRV CHASSIS	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	JSM0048	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]
375	RMA1234	PB PLATE	[M]
376	RMC0387	SUPPORT SPRING	[M]
377	VMA9535	CLAMPER BACKYOKE	[M]
378	XTV2+6G	PCB SCREW	[M]
379	XTW3+10T	SCREW	[M]
380	RHD30078	SCREW	[M]
381	SHR415	PLASTIC RIVET	[M]
382	REZ1198	17P FFC	[M]
383	REE0919	21P FFC	[M]
401	VWJ1277	SPINDLE FFC	[SPC]
402	VEM0665	SPINDLE MOTOR	[SPC]
403	VEM0666	SPINDLE MOTOR	[SPC]
404	VMB3278	SPRING	[SPC]
405	VMC1487	SPRING	[SPC]
406	VMC1488	SPRING ORNAMENT	[SPC]
407	VMC1489	SPRING ORNAMENT	[SPC]
408	VMD3261	HOLDER	[SPC]
409	VMG1166	FLOATING RUBBER	[SPC]
410	VMK0474	TRAVERSE CHASSIS	[SPC]
411	VMS6471	SHAFT	[SPC]
412	VMS6472	SHAFT	[SPC]
413	VED0402	OPTICAL PICK-UP	[SPC]
414	VMC1491	SPRING	[SPC]
415	VMC1490	SPRING	[SPC]
416	VMD3260	NUT	[SPC]
417	VHD1224	SCREW	[SPC]
418	VHD1295	SCREW	[SPC]
419	VHD1057	SCREW	[SPC]
420	XQNQC17+3	SCREW	[SPC]
421	XXE26C6FN	SCREW	[SPC]

21.2. Cabinet

21.2.1. Cabinet Parts Location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31 FOR GC , GCS , GK AND GT ONLY
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CP6251
(DVD P.C.B)
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CN1304
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CN702
(DSP P.C.B)
CP704
CP705 FOR GN ONLY
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CN704
CP101
JK201
CP102
JK703
CN803
CN804
CN801
CN802
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T501
CN502
(AC TRANSFORMER P.C.B)
F2 FOR GC, GCS AND GT ONLY
(VOLTAGE SELECTOR P.C.B)
S501 FOR GC , GCS AND GT ONLY
W503
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T502
JK500
FOR GC , GCS , GN AND GT ONLY
JK101
CN101B
CN102B
CN501
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(AC INLET P.C.B)
(TUNER P.C.B)
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H501/ W501
H1305/ W1305
JK701
JK702
JK502
JK501
H502/ W502
CP702
CP803
CP701
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CP801
CP804
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CN903A
CN902
CN904
(POWER P.C.B)
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FOR GK ONLY
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W901/H901B
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(PANEL P.C.B)
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CN903B
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W902/H902
FOR GC , GCS , GK AND GT ONLY
JK601
JK602
VR603
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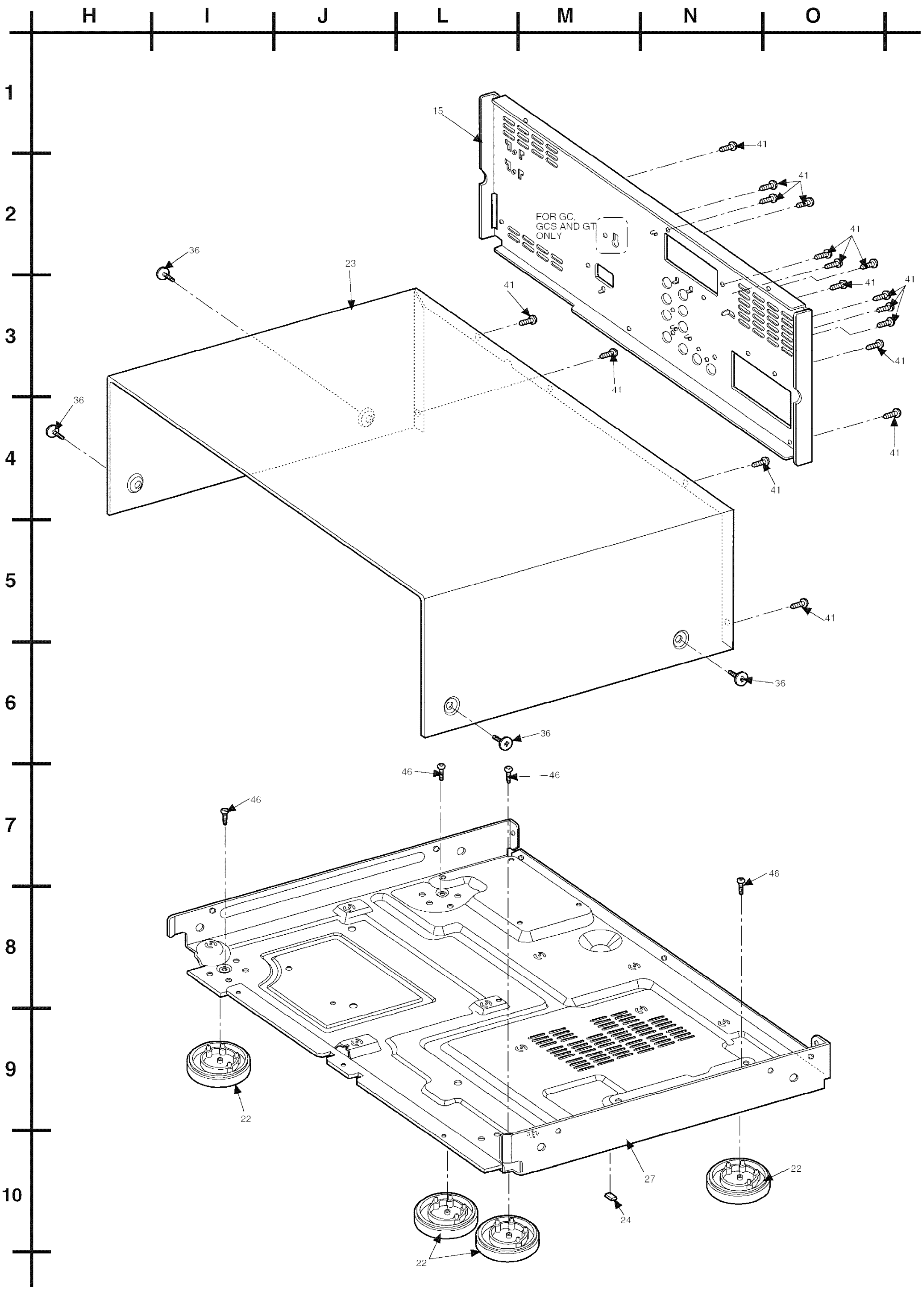
47 FOR GC, GCS , GK AND GT ONLY
FOR GC , GCS , GK AND GT ONLY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FOR GC, GCS AND GT ONLY
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21.2.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REE0914	FFC WIRE (7P)	[M]
2	REE0915	FFC (15P)	[M]
3	REE0916	FFC (26P)	[M]
4	REE0917	FFC (26P)	[M]
5	REE0918	FFC (14P)	[M]
6	REE0953	30P FFC	[M]
7	REX0973	10P WIRE	[M]
8	REM0072-3	FAN	[M]
9	RGK1223-S	VOLUME RING	[M]
10	RGK1224-S	CD LID	[M]
11	RGK1225-S	SIDE ORNAMENT (L)	[M]
12	RGK1226-S	SIDE ORNAMENT (R)	[M]
13	RGL0479-Q	PANEL LIGHT	[M]
14	RGP0770B-S2	FRONT PANEL	[M]GN
14	RGP0770-S	FRONT PANEL	[M]GC GCS GK GT
15	RGR0296B-F	REAR PANEL	[M]GK
15	RGR0296B-G	REAR PANEL	[M]GN
15	RGR0296C-A	REAR PANEL	[M]GC
15	RGR0296C-B	REAR PANEL	[M]GCS
15	RGR0296C-C	REAR PANEL	[M]GT
16	RGU1829-S	POWER BUTTON	[M]
17	RGU1830-S	SELECTOR BUTTON	[M]
18	RGU1831-S	PLAY BUTTON	[M]
19	RGW0334-S	VOLUME KNOB	[M]
20	RMN0579	FAN HOLDER ANGLE	[M]
22	RKA0079-A	FOOT	[M]
23	RKM0410A-S	TOP CABINET	[M]
24	RKA0109-K	LEG FELT	[M]
25	RKW0597-Q	FL WINDOW	[M]
26	RMC0158-S	TR-FIXTURE	[M]
27	RMK0445-1	BOTTOM CHASSIS	[M]
28	RMN0203	PCB HOLDER	[M]
29	RMN0570	FL HOLDER	[M]
30	RMN0571	JACK HOLDER	[M]
31	RMY0241	SUB HEAT SINK	[M]GC GCS GK GT
32	RSC0027-2	TUNER PACK	[M]GC GCS GT GN
33	RXX0193-6	HEAT SINK	[M]
34	SHE187-5	PCB SUPPORT	[M]
35	SHR301	WIRE TIE	[M]
36	SNE2129-4	SCREW	[M]
37	XTB3+10JFZ	SCREW	[M]
38	XTB3+20J	SCREW	[M]
39	XTB3+8JFZ	SCREW	[M]
40	XTBS26+10J	SCREW	[M]
41	XTBS3+8JFZ1	SCREW	[M]
42	XTW3+15T	SCREW	[M]
43	XTW3+8T	SCREW	[M]
45	RGB0036-A1	BRAND BADGE	[M]
46	XTB3+6J	SCREW	[M]
47	RGW0342-S	MIC VOLUME KNOB	[M]GC GCS GK GT
48	XTB3+10J	SCREW	[M]

21.3. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		P.C.B.	
	DPT-3BEE-AD	DVD SERVO P.C.B.	[M](RTL) GC/GN
	DPT-3EEMU-AD	DVD SERVO P.C.B.	[M](RTL) GCS/GT/GK
	REP2084D	DAC, CONNECTOR P.C.B.	[M](RTL)
	REP2578A-N	MOTOR, CD DETACT, SPINDLE POSITION P.C.B.	[M](RTL)
	REP2945D	DVD, TUNER, DSP P.C.B.	[M](RTL)GN
	REP2945F	DVD, TUNER, DSP P.C.B.	[M](RTL)GC
	REP2945G	DVD, TUNER, DSP P.C.B.	[M](RTL) GCS/GT
	REP2945H	DVD, TUNER, DSP P.C.B.	[M](RTL)GK
	REP1999B	TUNER PACK P.C.B.	[M](RTL)GC GCS GT GN
	REP2946C	PANEL, MIC,POWER SWITCH P.C.B.	[M](RTL)GN
	REP2946E	PANEL, MIC,POWER SWITCH P.C.B.	[M](RTL)GC
	REP2946D	PANEL, MIC,POWER SWITCH P.C.B.	[M](RTL) GCS/GT/GK
	REP2944C	POWER P.C.B.	[M](RTL)GN
	REP2944D	POWER P.C.B.	[M](RTL) GC/GCS/GT
	REP2944E	POWER P.C.B.	[M](RTL)GK
	REP2943B	AC TRANSFORMER, AC INLET P.C.B.	[M](RTL) GK/GN
	REP2943E	AC TRANSFORMER, AC INLET, VOLTAGE SELECTOR P.C.B.	[M](RTL) GC/GCS/GT
		INTEGRATED CIRCUITS	
IC1	TA7291P	IC DRIVE	[M]
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]
IC201	M62433AFP	IC AUDIO	[M]
IC204	M5218AP	IC BUFFER AMP	[M]
IC205	M5228FPE1	IC QUAD OP AMP	[M]
IC206	M5218AFPE3	IC	[M]
IC207	M5228FPE1	IC QUAD OP AMP	[M]
IC208	M62444FPE1	IC 4CH VOL	[M]
IC451	M38504M6211F	IC MECHA CONTROL	[M]
IC501	RSN311W64-P	IC	[M] ⚠
IC601	M38199MF231F	IC UCON	[M]
IC605	TA2011S	IC MIC AMP	[M]GC GCS GK GT
IC703	M5218AFPE3	IC	[M]
IC704	M5228FPE1	IC QUAD OP AMP	[M]
IC706	FA7612NTE2	IC DC/DC CONVERTER	[M]
IC707	LM2940T5M	IC REGULATOR	[M] ⚠
IC708	M5218AFPE3	IC	[M]
IC801	TC9472F-001	IC DSP	[M]
IC802	BU4053BCFE2	IC ANALOG SW	[M]
IC803	M5218AFPE3	IC	[M]
IC804	BU4053BCFE2	IC ANALOG SW	[M]
IC805	M5218AFPE3	IC	[M]
IC806	T87CH47U1E42	IC DSP UCON	[M]
IC1301	PCM1734EB-E2	IC D/A CONVERTER	[M]
IC1302	PCM1734EB-E2	IC D/A CONVERTER	[M]
IC1303	PCM1734EB-E2	IC D/A CONVERTER	[M]
IC1304	TC74HCT7007A	IC 3V-5V LEVEL SHIFT	[M]
IC1307	AN3581S-E1	IC VIDEO OUT	[M]
IC2001	MN67705EA	IC	[SPC]
IC2501	AN8485SB-E1	IC	[SPC]
IC2511	BA5983FM-E2	IC	[SPC]
IC3001	MN677511DE	IC	[SPC]
IC3051	MNX7160BT1	IC	[SPC]

Ref. No.	Part No.	Part Name & Description	Remarks
IC3061	HM5241605T12	IC	[SPC]
IC3071	PQ1R33	IC	[SPC]
IC4241	TC7ST04FUTL	IC	[SPC]
IC5201	RN5RZ33BA-TR	IC	[SPC]
IC5202	AN8706FHQ-V	IC	[SPC]
IC6201	MN102L25DFA	IC	[SPC]
IC6301	PST596JNR	IC	[SPC]
IC6302	JZS0649521C	IC	[SPC]GC GN
IC6302	JZS0649521B	IC	[SPC]GCS GK GT
IC6303	X25020S-2R7	IC	[SPC]
IC6501	BU2185F-E2	IC	[SPC]
IC6511	PQ1R33	IC	[SPC]
IC6521	TC7WH157FUTL	IC	[SPC]
IC6522	TC7WH74FUTL	IC	[SPC]
IC6542	AHC1GU04HDC	IC	[SPC]
IC6562	AHC1GU04HDC	IC	[SPC]
IC6563	TC7WH74FUTL	IC	[SPC]
IC6582	AHC1GU04HDC	IC	[SPC]
IC6583	TC7WH74FUTL	IC	[SPC]
IC7001	MN103007BGA	IC	[SPC]
IC7301	TC7SH08FUTL	IC	[SPC]
IC7302	TC7SH32FUTL	IC	[SPC]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]GC GCS GN GT
Q1	RVTDTC143EST	TRANSISTOR	[M]
Q2	2SC2786MTA	TRANSISTOR	[M]GC GCS GN GT
Q3	2SC2787FL1TA	TRANSISTOR	[M]GC GCS GN GT
Q4	2SC2787FL1TA	TRANSISTOR	[M]GC GCS GN GT
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q102	2SC2058SPTA	TRANSISTOR	[M]GK
Q106	RVTDTA114EST	TRANSISTOR	[M]
Q204	KRA111MTA	TRANSISTOR	[M]
Q205	2SD2144STA	TRANSISTOR	[M]
Q206	2SD2144STA	TRANSISTOR	[M]
Q207	KRA111MTA	TRANSISTOR	[M]
Q208	KTC3199GRTA	TRANSISTOR	[M]
Q210	KRA111MTA	TRANSISTOR	[M]
Q211	2SD2144STA	TRANSISTOR	[M]
Q212	2SD2144STA	TRANSISTOR	[M]
Q213	KRA111MTA	TRANSISTOR	[M]
Q214	2SD2144STA	TRANSISTOR	[M]
Q216	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q217	2SA933SSTA	TRANSISTOR	[M]
Q218	KRC111MTA	TRANSISTOR	[M]
Q221	KTC3199GRTA	TRANSISTOR	[M]
Q222	2SB621ARTA	TRANSISTOR	[M] ⚠
Q223	KTC3199GRTA	TRANSISTOR	[M]
Q224	2SB621ARTA	TRANSISTOR	[M]
Q225	KTC3199GRTA	TRANSISTOR	[M]
Q226	KTC3199GRTA	TRANSISTOR	[M]
Q227	2SD2144STA	TRANSISTOR	[M]
Q228	KRA111MTA	TRANSISTOR	[M]
Q453	2SB621ARTA	TRANSISTOR	[M]
Q454	KRC102MTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q501	2SD2395E	TRANSISTOR	[M] ⚠
Q502	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q503	2SD2395E	TRANSISTOR	[M] ⚠
Q504	2SB1566E	TRANSISTOR	[M] ⚠
Q505	KTC3199GRTA	TRANSISTOR	[M]
Q507	2SD2395E	TRANSISTOR	[M] ⚠
Q508	2SD2395E	TRANSISTOR	[M] ⚠
Q509	KRA102MTA	TRANSISTOR	[M]
Q510	KRC102MTA	TRANSISTOR	[M]
Q512	2SD2395E	TRANSISTOR	[M] ⚠
Q515	KTC3199GRTA	TRANSISTOR	[M]
Q516	KTC3199GRTA	TRANSISTOR	[M]
Q519	KTC3199GRTA	TRANSISTOR	[M]
Q520	2SA933SSTA	TRANSISTOR	[M]
Q521	2SD1859QRTV2	TRANSISTOR	[M]
Q522	2SB1417PQTA	TRANSISTOR	[M]
Q523	2SB1238QRTV2	TRANSISTOR	[M]
Q592	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q593	KTC3199GRTA	TRANSISTOR	[M]GC GCS GT ⚠
Q594	KRC102MTA	TRANSISTOR	[M]
Q601	RVTDTC124EST	TRANSISTOR	[M]
Q602	KRC102MTA	TRANSISTOR	[M]
Q603	KRC102MTA	TRANSISTOR	[M]
Q609	KRC102MTA	TRANSISTOR	[M]
Q610	KRC114MTA	TRANSISTOR	[M]
Q611	KRC114MTA	TRANSISTOR	[M]
Q612	KRC114MTA	TRANSISTOR	[M]
Q613	KRC114MTA	TRANSISTOR	[M]
Q614	KRC114MTA	TRANSISTOR	[M]
Q615	KRC114MTA	TRANSISTOR	[M]
Q616	KRA102MTA	TRANSISTOR	[M]
Q617	KTC3199GRTA	TRANSISTOR	[M]GC GCS GK GT
Q701	2SD2144STA	TRANSISTOR	[M]
Q702	2SD2144STA	TRANSISTOR	[M]
Q703	2SD2144STA	TRANSISTOR	[M]
Q704	2SD2144STA	TRANSISTOR	[M]
Q705	2SD2144STA	TRANSISTOR	[M]
Q706	2SD2144STA	TRANSISTOR	[M]
Q707	KRC102MTA	TRANSISTOR	[M]
Q708	KRC102MTA	TRANSISTOR	[M]
Q709	KRC102MTA	TRANSISTOR	[M]
Q710	2SB621ARTA	TRANSISTOR	[M] ⚠
Q711	KTC3199GRTA	TRANSISTOR	[M]
Q712	2SB1566E	TRANSISTOR	[M] ⚠
Q713	2SD2144STA	TRANSISTOR	[M]
Q714	2SB621ARTA	TRANSISTOR	[M] ⚠
Q715	KTC3199GRTA	TRANSISTOR	[M]
Q716	KRC102MTA	TRANSISTOR	[M]
Q717	KRC102MTA	TRANSISTOR	[M]
Q718	2SA1896STTD	TRANSISTOR	[M]
Q719	2SA1896STTD	TRANSISTOR	[M]
Q720	2SD2395E	TRANSISTOR	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
Q722	KRA111MTA	TRANSISTOR	[M]
Q751	KTC3199GRTA	TRANSISTOR	[M]
Q801	2SB621ARTA	TRANSISTOR	[M]
Q802	KRC102MTA	TRANSISTOR	[M]
Q808	2SD1020HTA	TRANSISTOR	[M]
Q809	2SD1020HTA	TRANSISTOR	[M]
Q1301	2SD601ATX	TRANSISTOR	[M]
Q1302	2SB709ATX	TRANSISTOR	[M]
Q1303	2SD601ATX	TRANSISTOR	[M]
Q1304	2SB709ATX	TRANSISTOR	[M]
Q1305	2SD601ATX	TRANSISTOR	[M]
Q3201	2SB1218A-RTX	TRANSISTOR	[SPC]
Q3211	2SB1218A-RTX	TRANSISTOR	[SPC]
Q5201	2SB1115-T	TRANSISTOR	[SPC]
QR2001	UN5213-TX	TRANSISTOR	[SPC]
QR2501	XP1213-TX	TRANSISTOR	[SPC]
QR2502	XP1213-TX	TRANSISTOR	[SPC]
QR2503	UN5213-TX	TRANSISTOR	[SPC]
QR5201	UN5212-TX	TRANSISTOR	[SPC]
QR5202	UN5212-TX	TRANSISTOR	[SPC]
QR5203	UN5112-TX	TRANSISTOR	[SPC]
QR6311	UN5212-TX	TRANSISTOR	[SPC]
		DIODES	
D1	GP1S94	PHOTO INTERRUPTOR	[M]
D1	SVC211SPA-AL	DIODE	[M]GC GCS GN GT
D2	MTZJ4R7BTA	DIODE	[M]
D2	SVC211SPA-AL	DIODE	[M]GC GCS GN GT
D3	SVC211SPA-AL	DIODE	[M]GC GCS GN GT
D101	UDZSTE175R1B	DIODE	[M] ⚠
D201	UDZSTE175R1B	DIODE	[M] ⚠
D202	RVD1SS133TA	DIODE	[M]
D203	RVD1SS133TA	DIODE	[M]
D204	RVD1SS133TA	DIODE	[M]
D205	RVD1SS133TA	DIODE	[M]
D206	RVD1SS133TA	DIODE	[M]
D207	RVD1SS133TA	DIODE	[M]
D208	MTZJ5R1CTA	DIODE	[M] ⚠
D209	RVD1SS133TA	DIODE	[M]
D210	MTZJ27DTA	DIODE	[M] ⚠
D211	RDV1SS133TA	DIODE	[M]
D212	RVD1SS133TA	DIODE	[M]
D213	MA700ATA	DIODE	[M]
D214	MA700ATA	DIODE	[M]
D215	MTZJ5R1BTA	DIODE	[M]
D216	MTZJ5R1BTA	DIODE	[M] ⚠
D223	1D3E	DIODE	[M]
D224	1D3E	DIODE	[M]
D455	MA111TX	DIODE	[M]
D500	RVD1SS133TA	DIODE	[M]
D501	1N5402BM21	DIODE	[M] ⚠
D502	1N5402BM21	DIODE	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
D503	1N5402BM21	DIODE	[M] ⚠
D504	1N5402BM21	DIODE	[M] ⚠
D505	1N5402BM21	DIODE	[M] ⚠
D506	1N5402BM21	DIODE	[M] ⚠
D507	1D3E	DIODE	[M] ⚠
D508	1D3E	DIODE	[M] ⚠
D509	1D3E	DIODE	[M] ⚠
D510	1D3E	DIODE	[M] ⚠
D511	RK306LFU1	DIODE	[M]
D512	RK306LFU1	DIODE	[M]
D515	MTZJ16ATA	DIODE	[M] ⚠
D516	MTZJ8R2BTA	DIODE	[M] ⚠
D518	MTZJ10BTA	DIODE	[M] ⚠
D520	MTZJ11CTA	DIODE	[M]
D521	1D3E	DIODE	[M]
D523	1D3E	DIODE	[M] ⚠
D524	RVD1SS133TA	DIODE	[M]
D525	1SS291TA	DIODE	[M]
D528	RVD1SS133TA	DIODE	[M]
D530	1D3E	DIODE	[M] ⚠
D531	1D3E	DIODE	[M] ⚠
D532	1D3E	DIODE	[M] ⚠
D533	1D3E	DIODE	[M] ⚠
D536	MTZJ24DTA	DIODE	[M]
D537	MTZJ24DTA	DIODE	[M]
D538	1D3E	DIODE	[M]
D542	RVD1SS133TA	DIODE	[M]
D547	1D3E	DIODE	[M] ⚠
D548	1D3E	DIODE	[M] ⚠
D550	RVD1SS133TA	DIODE	[M]
D551	RVD1SS133TA	DIODE	[M]
D581	1D3E	DIODE	[M] ⚠
D582	1D3E	DIODE	[M] ⚠
D591	1D3E	DIODE	[M]GC GCS GT
D592	1D3E	DIODE	[M] ⚠
D595	MTZJ6R8ATA	DIODE	[M] ⚠
D597	RVD1SS133TA	DIODE	[M]GC GCS GT
D598	1D3E	DIODE	[M]
D599	1SS291TA	DIODE	[M]GC GCS GT
D615	SML72755C	DIODE	[M]
D631	SELS5823C	DIODE	[M]
D632	SLR325MCT31W	DIODE	[M]
D633	SLR325MCT31W	DIODE	[M]
D634	SLR325MCT31W	DIODE	[M]
D635	SLR325MCT31W	DIODE	[M]
D636	SLR325MCT31W	DIODE	[M]
D640	MA723TA	DIODE	[M]
D651	RVD1SS133TA	DIODE	[M]
D652	1SS291TA	DIODE	[M]
D653	1SS291TA	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D656	RVD1SS133TA	DIODE	[M]
D658	MTZJ5R6BTA	DIODE	[M] ⚠
D668	RVD1SS133TA	DIODE	[M]GC GCS GK GT
D669	RVD1SS133TA	DIODE	[M]GC GCS GK GT
D670	RVD1SS133TA	DIODE	[M]GC
D672	RVD1SS133TA	DIODE	[M]
D673	RVD1SS133TA	DIODE	[M]GC GCS GK GT
D674	RVD1SS133TA	DIODE	[M]GN
D675	RVD1SS133TA	DIODE	[M]GC GCS GK GT
D691	RVD1SS133TA	DIODE	[M]
D695	1SS291TA	DIODE	[M]
D702	MA111TX	DIODE	[M]
D703	MA111TX	DIODE	[M]
D704	MA111TX	DIODE	[M]
D707	MA111TX	DIODE	[M]
D708	MA111TX	DIODE	[M]
D709	MA111TX	DIODE	[M]
D710	MA111TX	DIODE	[M]
D711	MA111TX	DIODE	[M]
D712	MA111TX	DIODE	[M]
D713	MA111TX	DIODE	[M]
D716	SFPB-72V	DIODE	[M]
D721	RL1N4003N02	DIODE	[M]GC GCS GK GT ⚠
D722	MA111TX	DIODE	[M]
D723	RL1N4003N02	DIODE	[M]
D724	RL1N4003N02	DIODE	[M]
D725	RL1N4003N02	DIODE	[M]
D726	RL1N4003N02	DIODE	[M]
D727	UDZ13BTE-17	DIODE	[M] ⚠
D728	UDZSTE175R1B	DIODE	[M]
D729	RL154M11	DIODE	[M]
D751	MA111TX	DIODE	[M]
D804	MA111TX	DIODE	[M]
D805	MA111TX	DIODE	[M]
D806	MA111TX	DIODE	[M]
D807	MA111TX	DIODE	[M]
D808	MA111TX	DIODE	[M]
D1301	MA111TX	DIODE	[M]
D1302	MA111TX	DIODE	[M]
D1303	MA111TX	DIODE	[M]
D1304	MA111TX	DIODE	[M]
D3001	MA8030-HTX	DIODE	[SPC]
D3002	MA111-TX	DIODE	[SPC]
D3071	MA111-TX	DIODE	[SPC]
D6311	MA728-TX	DIODE	[SPC]
D6511	MA111-TX	DIODE	[SPC]
		VARIABLE RESISTORS	
VR601	EVEKE2F3024B	VR VOL. JOG	[M]
VR603	EVUE27FK5B53	VR MIC	[M]GC GCS GK GT
VR1301	EVNDXAA00B52	VR VARICON	[M]
VR1302	EVNDXAA00B52	VR VARICON	[M]
		SWITCHES	

Ref. No.	Part No.	Part Name & Description	Remarks
S501	RSR4B007S-Q	SW VOLT ADJUST	[M]GC GCS GT ⚠
S621	EVQ21405R	SW POWER	[M]
S622	EVQ21405R	SW DISC 1	[M]
S623	EVQ21405R	SW DISC 2	[M]
S624	EVQ21405R	SW DISC 3	[M]
S625	EVQ21405R	SW DISC 4	[M]
S626	EVQ21405R	SW DISC 5	[M]
S631	EVQ21405R	SW FM MODE	[M]
S632	EVQ21405R	SW TUNING UP	[M]
S633	EVQ21405R	SW TUNING DOWN	[M]
S634	EVQ21405R	SW MEMORY	[M]
S635	EVQ21405R	SW OPEN/CLOSE	[M]
S636	EVQ21405R	SW TUNE MODE	[M]
S641	EVQ21405R	SW DOLBY PRO LOGIC	[M]
S642	EVQ21405R	SW VIRTUAL REAR	[M]
S643	EVQ21405R	SW MULTI REAR	[M]
S644	EVQ21405R	SW CENTRE LEVER	[M]
S645	EVQ21405R	SW SUB WOOFER LEVER	[M]
S646	EVQ21405R	SW SFC	[M]
S647	EVQ21405R	SW SELECTOR	[M]
		SWITCHES	
SW1	RSH1A032-U	SW PUSH	[M]
SW2	RSH1A032-U	SW PUSH	[M]
SW3	RSH1A005-1U	SWITCH	[M]
SW4	RSH1A91ZA-A	SW CD	[M]
SW5	RSP1A017-A	SW LOCK	[M]
		CONNECTORS	
CN1	RJS1A9414	FF CONNECTOR	[M]
CN101B	RJU100W07	7P CONNECTOR	[M]
CN102B	RJU100W07	7P CONNECTOR	[M]
CN501	RJP5G4YA	CONNECTOR	[M]
CN502	RJP12G4YA	CONNECTOR	[M]
CN701	RJU057G10	10P P2 MQ CONNECTOR	[M]
CN702	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN703	RJT029W03VT	CONNECTOR	[M]
CN704	RJU057G10	10P P2 MQ CONNECTOR	[M]
CN801	RJU057G10	10P P2 MQ CONNECTOR	[M]
CN802	RJU057G10	10P P2 MQ CONNECTOR	[M]
CN803	RJU057G10	10P P2 MQ CONNECTOR	[M]
CN804	RJU057G12	12P P2 MQ CONNECTOR	[M]
CN902	RJS1A5210	10P WIRE HOLDER	[M]
CN903A	RJS2A3330	30P CONNECTOR	[M]
CN903B	RJS2A5630-1	30P CONECTOR	[M]
CN904	RJT029W03VT	CONNECTOR	[M]
CN1301	RJS2A5615	15P P1 FFC CONNECTOR	[M]
CN1302	RJS2A5626	26P P1 FFC CONNECTOR	[M]
CN1303	RJS7Q11ZA	CONNECTOR	[M]
CN1304	RJS2A5726	26P P1 FFC CONNECTOR	[M]
CN1305	RJS1A5206	7P CONNECTOR	[M]
CN1351	RJS2A5621	21P P1 FFC CONNECTOR	[M]
CN1352	RJS2A5721	21P P1 FFC CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CP101	RJT100W07	7P CONNECTOR	[M]
CP102	RJT100W07	7P CONNECTOR	[M]
CP701	RJT057G10	10P P2 MQ CONNECTOR	[M]
CP702	RJT057G12	12P P2 MQ CONNECTOR	[M]
CP704	RJP2G4YA	CONNECTOR	[M]GC GCS GK GT
CP704	RJT057G10	10P P2 MQ CONNECTOR	[M]
CP705	RJT029W03VT	CONNECTOR	[M]GN
CP801	RJT057G10	10P P2 MQ CONNECTOR	[M]
CP802	RJT057G10	10P P2 MQ CONNECTOR	[M]
CP803	RJT057G10	10P P2 MQ CONNECTOR	[M]
CP804	RJT057G12	12P P2 MQ CONNECTOR	[M]
CP6251	RJP10G18ZA	CONNECTOR	[M]
FP2501	VJS4241D017W	17P CONNECTOR	[SPC]
FP2511	VJS4241D007W	7P CONNECTOR	[SPC]
FP3202	VJS4241D015W	15P CONNECTOR	[SPC]
FP4202	VJS4241D026W	26P CONNECTOR	[SPC]
FP5201	VJS3913A021	21P CONNECTOR	[SPC]
PS6201	VJS2961C010	10P CONNECTOR	[SPC]
PS6251	VJP4027D010	10P CONNECTOR	[SPC]
		COILS & TRANSFORMERS	
L1	RLQZP1R2KT-Y	COIL	[M]GC GCS GN GT
L2	RLQZPR47KT-Y	COIL	[M]GC GCS GN GT
L101	RLQBR33KTD-D	INDUCTOR	[M]
L102	RLQBR33KTD-D	INDUCTOR	[M]
L201	RLQA100JT1-Y	AXIAL COIL	[M]
L201	RLQB100KT-1Y	COIL	[M]
L451	RLQB101KT-1Y	COIL	[M]
L452	RLQB100KT-1Y	COIL	[M]
L500	RLQZ371	LINE FILTER	[M]
L501	RLQYR73MW-E	CHOKE COIL	[M]
L502	RLQYR73MW-E	CHOKE COIL	[M]
L601	RLQA3R3JT1-Y	AXIAL COIL	[M]
L602	RLQA101JT1-Y	AXIAL COIL	[M]
L604	RLQA101JT1-Y	AXIAL COIL	[M]
L605	RLQA220JT1-Y	INDUCTOR	[M]
L606	RLQA101JT1-Y	AXIAL COIL	[M]
L607	RLQA101JT1-Y	AXIAL COIL	[M]
L608	RLQA100JT1-Y	AXIAL COIL	[M]GC GCS GK GT
L609	RLQA100JT1-Y	AXIAL COIL	[M]GC GCS GK GT
L610	RLQA100JT1-Y	AXIAL COIL	[M]
L611	RLQA101JT1-Y	AXIAL COIL	[M]GC GCS GK GT
L612	RLQA100JT1-Y	AXIAL COIL	[M]GC GCSGK GT
L613	RLQA3R3JT1-Y	AXIAL COIL	[M]GCS GK GT
L619	RLQA101JT1-Y	AXIAL COIL	[M]
L701	RLL500050T-Y	RF CHOKE COIL	[M]
L702	RLL500050T-Y	RF CHOKE COIL	[M]
L703	RLL500050T-Y	RF CHOKE COIL	[M]
L704	RLQX360M-T	SWITCHING COIL	[M]
L751	RLQB101KT-1Y	COIL	[M]
L802	RLQB100KT-1Y	COIL	[M]
L1301	RLBN102V-Y	CHIP INDUCTOR	[M]
L1303	RLBN601V-W	CHIP COIL	[M]
L1304	ELESN330KA	INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L1305	ELESN330KA	INDUCTOR	[M]
L1306	ELESN330KA	INDUCTOR	[M]
L1351	RLBN601V-W	CHIP COIL	[M]
L2001	VLQ0779K100	COIL	[SPC]
L2002	VLQ0779K100	COIL	[SPC]
L2501	ERJ14Y0R00H	0 1/4W	[SPC]
L3001	ERJ14Y0R00H	0 1/4W	[SPC]
L3281	VLQ0779K100	COIL	[SPC]
L5201	VLQ0779K100	COIL	[SPC]
L5202	VLQ0779K100	COIL	[SPC]
L6201	ERJ14Y0R00H	0 1/4W	[SPC]
L6501	ELJFC220KF	COIL	[SPC]
L6502	ELJFC220KF	COIL	[SPC]
L7001	VLQ0779K100	COIL	[SPC]
L7002	ERJ14Y0R00H	0 1/4W	[SPC]
LB2501	VLP0323A601R	INDUCTOR	[SPC]
LB2502	VLP0323A601R	INDUCTOR	[SPC]
LB2503	VLP0323A601R	INDUCTOR	[SPC]
LB2504	VLP0323A601R	INDUCTOR	[SPC]
LB2505	VLP0323A601R	INDUCTOR	[SPC]
LB2506	VLP0323A601R	INDUCTOR	[SPC]
LB2506	VLP0323A601R	INDUCTOR	[SPC]
LB2507	VLP0323A601R	INDUCTOR	[SPC]
LB2508	VLP0323A601R	INDUCTOR	[SPC]
LB2509	JALBK2HS470T	COIL	[SPC]
LB2510	JALBK2HS470T	COIL	[SPC]
LB2511	JALBK2HS470T	COIL	[SPC]
LB2512	JALBK2HS470T	COIL	[SPC]
LB2513	JALBK2HS470T	COIL	[SPC]
LB2514	VLP0323A601R	INDUCTOR	[SPC]
LB2515	VLP0323A601R	INDUCTOR	[SPC]
LB2516	VLP0323A601R	INDUCTOR	[SPC]
LB2517	VLP0323A601R	INDUCTOR	[SPC]
LB2518	JALBK2HS470T	COIL	[SPC]
LB2519	JALBK2HS470T	COIL	[SPC]
LB2520	JALBK2HS470T	COIL	[SPC]
LB2521	JALBK2HS470T	COIL	[SPC]
LB3001	VLP0155-T	COIL	[SPC]
LB3201	VLP0323A601R	INDUCTOR	[SPC]
LB3202	VLP0323A601R	INDUCTOR	[SPC]
LB3206	VLP0323A601R	INDUCTOR	[SPC]
LB4001	VLP0155-T	COIL	[SPC]
LB4002	VLP0155-T	COIL	[SPC]
LB4003	VLP0155-T	COIL	[SPC]
LB4004	VLP0155-T	COIL	[SPC]
LB4005	VLP0155-T	COIL	[SPC]
LB4006	VLP0323A601R	INDUCTOR	[SPC]
LB4007	VLP0323A601R	INDUCTOR	[SPC]
LB4008	VLP0323A601R	INDUCTOR	[SPC]
LB4011	VLP0323A601R	INDUCTOR	[SPC]
LB4013	VLP0323A601R	INDUCTOR	[SPC]
LB4014	VLP0323A601R	INDUCTOR	[SPC]
LB4017	VLP0323A601R	INDUCTOR	[SPC]
LB4018	VLP0323A601R	INDUCTOR	[SPC]
LB4019	VLP0323A601R	INDUCTOR	[SPC]
LB4241	VLP0323A601R	INDUCTOR	[SPC]

Ref. No.	Part No.	Part Name & Description	Remarks
LB5201	VLP0323A601R	INDUCTOR	[SPC]
LB5202	VLP0323A601R	INDUCTOR	[SPC]
LB5203	JALBK2HS470T	COIL	[SPC]
LB5204	VLP0323A601R	INDUCTOR	[SPC]
LB5205	VLP0323A601R	INDUCTOR	[SPC]
LB5206	VLP0323A601R	INDUCTOR	[SPC]
LB5207	VLP0323A601R	INDUCTOR	[SPC]
LB5208	VLP0323A601R	INDUCTOR	[SPC]
LB5209	VLP0323A601R	INDUCTOR	[SPC]
LB5210	VLP0323A601R	INDUCTOR	[SPC]
LB5211	JALBK2HS470T	COIL	[SPC]
LB5212	VLP0323A601R	INDUCTOR	[SPC]
LB5213	VLP0323A601R	INDUCTOR	[SPC]
LB5214	VLP0323A601R	INDUCTOR	[SPC]
LB5215	JALBK2HS470T	COIL	[SPC]
LB5216	VLP0323A601R	INDUCTOR	[SPC]
LB5217	JALBK2HS470T	COIL	[SPC]
LB5218	VLP0323A601R	INDUCTOR	[SPC]
LB5219	JALBK2HS470T	COIL	[SPC]
LB6213	VLP0155-T	COIL	[SPC]
LB6501	VLP0323A601R	INDUCTOR	[SPC]
LB6502	VLP0323A601R	INDUCTOR	[SPC]
LB6504	VLP0155-T	COIL	[SPC]
LB6511	VLP0323A601R	INDUCTOR	[SPC]
LB6521	VLP0323A601R	INDUCTOR	[SPC]
LB6522	VLP0155-T	COIL	[SPC]
LB6523	VLP0323A601R	INDUCTOR	[SPC]
LB6525	VLP0155-T	COIL	[SPC]
LB6526	VLP0155-T	COIL	[SPC]
LB6542	VLP0323A601R	INDUCTOR	[SPC]
LB6543	VLP0157-T	COIL	[SPC]
LB6562	VLP0323A601R	INDUCTOR	[SPC]
LB6563	VLP0155-T	COIL	[SPC]
LB6564	VLP0157-T	COIL	[SPC]
LB6565	VLP0323A601R	INDUCTOR	[SPC]
LB6582	VLP0155-T	COIL	[SPC]
LB6583	VLP0323A601R	INDUCTOR	[SPC]
LB6584	VLP0157-T	COIL	[SPC]
LB6585	VLP0323A601R	INDUCTOR	[SPC]
LB6586	VLP0155-T	COIL	[SPC]
T501	RTP2N3E012	TRANSFORMER	[M] ⚠
T502	RTP1H3E001	BACKUP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z101	RLA2Z006M-T	ANT COIL BLOCK	[M]
Z102	RLI2Z021M-T	AM IF BLOCK	[M]
Z120	ENV17290G1Y	TUNER UNIT	[M]GK
Z501	ERZV10V511CS	ZENER	[M] ⚠
Z601	RCDGP1U28MD	REMOTE SENSOR	[M]
Z1301	ELB4K163B	VIDEO LPF	[M]
Z1302	ELB4K164B	VIDEO BPF	[M]
		CERAMIC FILTERS	

Ref. No.	Part No.	Part Name & Description	Remarks
CF201	RLFFETNGD01L	CERAMIC FILTER	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	[M]
		RELAY	
RL502	RSY0040M-0	PRIMARY RELAY	[M] ⚠
		OSCILLATORS	
X102	RLFDFT22DD	DISCRIMINATOR	[M]
X103	RSXC7M20S05T	CRYSTAL OSCILLATOR	[M]
X451	RSXY8M00D01T	CERAMIC RESONATOR	[M]
X601	RSXD32K7S02	CRYSTAL OSCILLATOR	[M]
X602	RSXZ8M00D01T	CERAMIC RESONATOR	[M]
X801	RSXZ33M8M03T	CERAMIC RESONATOR	[M]
X802	RSXY8M00D01T	CERAMIC RESONATOR	[M]
X6501	VSX1044	CRYSTAL OSCILLATOR	[SPC]
		DISPLAY TUBE	
FL601	RSL0297-F	FL	[M]
FL6251	ELKE103FA	FILTER	[SPC]
FL6252	ELKE103FA	FILTER	[SPC]
FL6253	ELKE103FA	FILTER	[SPC]
FL6254	ELKE103FA	FILTER	[SPC]
		FUSES	
F1	XBA2C20TB0	FUSE	[M]GK GN
F1	XBA2C31TB0	FUSE	[M]GC GCS GT
F2	XBA2C16TB0	PRIMAY FUSE	[M]GC GCS GT
		FUSE HOLDERS	
FC501	RJR0169T	FUSE HOLDER	[M]
FC502	RJR0169T	FUSE HOLDER	[M]
FC503	RJR0169T	FUSE HOLDER	[M]GC GCS GT
FC504	RJR0169T	FUSE HOLDER	[M]GC GCS GT
		HOLDERS	
H501	RJS1A5505	5P WIRE HOLDER	[M]
H502	RJS1A5512	12P WIRE HOLDER	[M]
H901A	RMR0314	5P CABLE HOLDER	[M]
H901B	RMR0314	5P CABLE HOLDER	[M]
H902	RMR0319	10P CABLE HOLDER	[M]
H1305	RMR0315	6P CABLE HOLDER	[M]
		JACKS	
JK101	RJH5210-J	JK ANTENNA	[M]GK
JK101	RJH5404-1J	JK 4P ANT TERMINAL	[M]GC GCS GN GT
JK201	RJH2603N	JK 6P RCA	[M]
JK500	SJS9236-1	JK SOCKET	[M] ⚠
JK501	RJH5601-2	JK 6P SPEAKER	[M]
JK502	RJH5601-1	JK 6P SPEAKER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
JK601	RJJ65TN01-X	JK MIC	[M]GC GCS GK GT
JK602	RJJ65TN01-X	JK MIC	[M]GC GCS GK GT
JK603	RJJ65TN01-X	JK MIC	[M]
JK701	SJS9418-1	JACK	[M]
JK702	SJFD7-6	JK VIDEO OUT	[M]
JK703	RJH2213N	JK 2P RCA	[M]
		EARTH TERMINAL	
E500	SNE1004-2	EARTH TERMINAL	[M]
E501	SNE1004-2	EARTH TERMINAL	[M]
E1301	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REE0955	AC IN (W1)	[M]
W1	REZ1023-1	4P WIRE	[M]
W2	REE0956	AC IN (W2)	[M]
W2	REZ1024	3 PIN WIRE	[M]
W501	REX1000	5P CONNECTOR KIT	[M]
W502	REX0999	CONNECTER KIT (12P)	[M]
W503	REX1001	CONNECTOR KIT (2P)	[M]
W705	REX1001	2P CONNECTOR	[M]GN
W901	RWJ1105085RR	MAIN CONTROL WIRE	[M]
W902	RWJ1110100RX	WIRE	[M]
W904	REX1030	2P WIRE	[M]
W1305	RWJ1106260RX	6P WIRE	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R1	ERDS2TJ104T	100K 1/4W	[M]GC GCS GN GT
R2	ERDS2TJ104T	100K 1/4W	[M]GC GCS GN GT
R3	ERDS2TJ221T	220 1/4W	[M]GC GCS GN GT
R4	ERDS2TJ104T	100K 1/4W	[M]GC GCS GN GT
R5	ERDS2TJ564T	560K 1/4W	[M]GC GCS GN GT
R6	ERDS2TJ391T	390 1/4W	[M]GC GCS GN GT
R7	ERDS2TJ272T	2.7K 1/4W	[M]GC GCS GN GT
R8	ERDS2TJ684T	680K 1/4W	[M]GC GCS GN GT
R9	ERDS2TJ391T	390 1/4W	[M]GC GCS GN GT
R10	ERDS2TJ391T	390 1/4W	[M]GC GCS GN GT
R11	ERDS2TJ684T	680K 1/4W	[M]GC GCS GN GT
R101	ERJ6GEY0R00V	0 1/10W	[M]GC GCS GN GT
R102	ERJ6GEYJ472V	4.7K 1/10W	[M]
R103	ERJ6GEYJ101V	100 1/10W	[M]GK
R103	ERJ6GEYJ271V	270 1/10W	[M]GC GCS GN GT
R104	ERJ6GEYJ102V	1K 1/10W	[M]GC GCS GN GT
R104	ERJ6GEYJ103V	10K 1/10W	[M]GK
R105	ERJ6GEYJ471V	470 1/10W	[M]
R105	ERJ6GEYJ471V	470 1/10W	[M]
R106	ERJ6GEYJ474V	470K 1/10W	[M]
R107	ERJ6GEYJ331V	330 1/10W	[M]
R108	ERJ6GEYJ474V	470K 1/10W	[M]
R109	ERJ6GEYJ331V	330 1/10W	[M]
R110	ERJ6GEYJ102V	1K 1/10W	[M]
R111	ERJ6GEYJ391V	390 1/10W	[M]
R112	ERJ6GEYJ104V	100K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R113	ERJ6GEYJ103V	10K 1/10W	[M]
R114	ERJ6GEYJ562V	5.6K 1/10W	[M]
R115	ERJ6GEYJ561V	560 1/10W	[M]
R116	ERJ6GEYJ102V	1K 1/10W	[M]
R117	ERJ6GEYJ473V	47K 1/10W	[M]GC GCS GN GT
R117	ERJ6GEYJ683V	68K 1/10W	[M]GK
R118	ERJ6GEYJ332V	3.3K 1/10W	[M]
R119	ERJ6GEYJ123V	12K 1/10W	[M]GK
R119	ERJ6GEYJ472V	4.7K 1/10W	[M]GC GCS GN GT
R120	ERJ6GEYJ473V	47K 1/10W	[M]
R121	ERJ6GEYJ223V	22K 1/10W	[M]
R122	ERJ6GEYJ272V	2.7K 1/10W	[M]
R123	ERJ6GEYJ683V	68K 1/10W	[M]
R124	ERJ6GEYJ330V	33 1/10W	[M]
R125	ERJ6GEYJ471V	470 1/10W	[M]
R126	ERJ6GEYJ152V	1.5K 1/10W	[M]
R127	ERJ6GEYJ471V	470 1/10W	[M]
R128	ERJ6GEYJ820V	82 1/10W	[M]
R129	ERJ6GEYJ273V	27K 1/10W	[M]
R130	ERJ6GEYJ103V	10K 1/10W	[M]
R131	ERJ8GEYJ680V	68 1/8W	[M]
R132	ERJ6GEYJ103V	10K 1/10W	[M]
R133	ERJ6GEYJ102V	1K 1/10W	[M]
R134	ERJ6GEYJ471V	470 1/10W	[M]
R135	ERJ6GEYJ102V	1K 1/10W	[M]
R136	ERJ6GEYJ102V	1K 1/10W	[M]
R137	ERJ6GEYJ102V	1K 1/10W	[M]
R138	ERJ6GEYJ332V	3.3K 1/10W	[M]
R141	ERJ6GEYJ682V	6.8K 1/10W	[M]
R142	ERJ6GEYJ682V	6.8K 1/10W	[M]
R143	ERJ6GEYJ223V	22K 1/10W	[M]
R145	ERJ6GEYJ104V	100K 1/10W	[M]
R146	ERJ6GEYJ104V	100K 1/10W	[M]
R151	ERJ6GEYJ820V	82 1/10W	[M]
R152	ERJ6GEY0R00V	0 1/10W	[M]
R201	ERJ6GEYJ153V	15K 1/10W	[M]
R202	ERJ6GEYJ153V	15K 1/10W	[M]
R203	ERJ6GEYJ392V	3.9K 1/10W	[M]
R204	ERJ6GEYJ392V	3.9K 1/10W	[M]
R205	ERJ6GEYJ272V	2.7K 1/10W	[M]
R206	ERJ6GEYJ272V	2.7K 1/10W	[M]
R207	ERJ6GEYJ222V	2.2K 1/10W	[M]
R208	ERJ6GEYJ222V	2.2K 1/10W	[M]
R209	ERJ6GEYJ123V	12K 1/10W	[M]
R210	ERJ6GEYJ123V	12K 1/10W	[M]
R215	ERJ6GEYJ332V	3.3K 1/10W	[M]
R216	ERJ6GEYJ332V	3.3K 1/10W	[M]
R217	ERJ6GEYJ392V	3.9K 1/10W	[M]
R218	ERJ6GEYJ392V	3.9K 1/10W	[M]
R219	ERJ6GEYJ332V	3.3K 1/10W	[M]
R220	ERJ6GEYJ332V	3.3K 1/10W	[M]
R229	ERJ6GEYJ222V	2.2K 1/10W	[M]
R230	ERJ6GEYJ472V	4.7K 1/10W	[M]
R231	ERJ6GEYJ222V	2.2K 1/10W	[M]
R232	ERJ6GEYJ123V	12K 1/10W	[M]
R233	ERJ6GEYJ103V	10K 1/10W	[M]
R234	ERJ6GEYJ183V	18K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R235	ERJ6GEYJ183V	18K 1/10W	[M]
R236	ERJ6GEYJ122V	1.2K 1/10W	[M]
R237	ERJ6GEYJ223V	22K 1/10W	[M]
R238	ERJ6GEYJ332V	3.3K 1/10W	[M]
R240	ERJ6GEYJ332V	3.3K 1/10W	[M]
R242	ERJ6GEYJ2R7V	2.7 1/10W	[M]
R248	ERJ6GEYJ472V	4.7K 1/10W	[M]
R249	ERJ6GEYJ222V	2.2K 1/10W	[M]
R250	ERJ6GEYJ222V	2.2K 1/10W	[M]
R251	ERJ6GEYJ1R8V	1.8 1/10W	[M]
R252	ERJ6GEYJ271V	270 1/10W	[M]
R253	ERDS2TJ332T	3.3K 1/4W	[M]
R254	ERDS2TJ332T	3.3K 1/4W	[M]
R255	ERDS2TJ104T	100K 1/4W	[M]
R256	ERDS2TJ104T	100K 1/4W	[M]
R257	ERDS2TJ102T	1K 1/4W	[M]
R258	ERDS2TJ102T	1K 1/4W	[M]
R259	ERDS2TJ123T	12K 1/4W	[M]
R260	ERDS2TJ123T	12K 1/4W	[M]
R261	ERJ6GEYJ153V	15K 1/10W	[M]
R262	ERJ6GEYJ153V	15K 1/10W	[M]
R263	ERDS2TJ123T	12K 1/4W	[M]
R264	ERDS2TJ123T	12K 1/4W	[M]
R264	ERJ6GEYJ392V	3.9K 1/10W	[M]
R265	ERJ6GEYJ392V	3.9K 1/10W	[M]
R266	ERJ6GEYJ392V	3.9K 1/10W	[M]
R267	ERDS2TJ273T	27K 1/4W	[M]
R267	ERJ6GEYJ153V	15K 1/10W	[M]
R268	ERDS2TJ273T	27K 1/4W	[M]
R268	ERJ6GEYJ153V	15K 1/10W	[M]
R269	ERDS2TJ390T	39 1/4W	[M]
R269	ERJ6GEYJ392V	3.9K 1/10W	[M]
R270	ERDS2TJ390T	39 1/4W	[M]
R271	ERDS2TJ390T	39 1/4W	[M]
R272	ERDS2TJ390T	39 1/4W	[M]
R273	ERDS2TJ154T	150K 1/4W	[M]
R274	ERDS2TJ124T	120K 1/4W	[M]
R275	ERDS2TJ272T	2.7K 1/4W	[M]
R276	ERDS2TJ222T	2.2K 1/4W	[M]
R277	ERDS2TJ822T	8.2K 1/4W	[M]
R279	ERDS2TJ123T	12K 1/4W	[M]
R280	ERJ6GEYJ101V	100 1/10W	[M]
R281	ERDS2TJ273T	27K 1/4W	[M]
R282	ERDS2TJ273T	27K 1/4W	[M]
R283	ERDS2TJ562T	5.6K 1/4W	[M]
R284	ERDS2TJ332T	3.3K 1/4W	[M]
R295	ERJ6GEYJ122V	1.2K 1/10W	[M]
R296	ERJ6GEYJ122V	1.2K 1/10W	[M]
R307	ERJ6GEYJ104V	100K 1/10W	[M]
R308	ERJ6GEYJ104V	100K 1/10W	[M]
R311	ERDS2TJ183T	18K 1/4W	[M]
R312	ERDS2TJ333T	33K 1/4W	[M]
R313	ERDS2TJ104T	100K 1/4W	[M]
R314	ERDS2TJ104T	100K 1/4W	[M]
R316	ERDS2TJ102T	1K 1/4W	[M]
R319	ERDS2TJ562T	5.6K 1/4W	[M]
R320	ERDS2TJ562T	5.6K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R321	ERDS2TJ273T	27K 1/4W	[M]
R322	ERDS2TJ273T	27K 1/4W	[M]
R323	ERDS2TJ101T	100 1/4W	[M]
R324	ERDS2TJ101T	100 1/4W	[M]
R325	ERDS2TJ154T	150K 1/4W	[M]
R326	ERDS2TJ683T	68K 1/4W	[M]
R327	ERDS2TJ562T	5.6K 1/4W	[M]
R328	ERDS2TJ223T	22K 1/4W	[M]
R329	ERDS2TJ222T	2.2K 1/4W	[M]
R330	ERDS2TJ104T	100K 1/4W	[M]
R331	ERDS2TJ102T	1K 1/4W	[M]
R332	ERDS2TJ154T	150K 1/4W	[M]
R333	ERDS2TJ332T	3.3K 1/4W	[M]
R334	ERDS2TJ824T	820K 1/4W	[M]
R335	ERDS2TJ103T	10K 1/4W	[M]
R336	ERDS2TJ103T	10K 1/4W	[M]
R337	ERJ6GEYJ102V	1K 1/10W	[M]
R338	ERDS2TJ124T	120K 1/4W	[M]
R339	ERJ6GEYJ102V	1K 1/10W	[M]
R340	ERDS2TJ472T	4.7K 1/4W	[M]
R341	ERDS2TJ103T	10K 1/4W	[M]
R342	ERDS2TJ103T	10K 1/4W	[M]
R343	ERDS2TJ222T	2.2K 1/4W	[M]
R345	ERDS2TJ562T	5.6K 1/4W	[M]
R346	ERDS2TJ183T	18K 1/4W	[M]
R347	ERDS2TJ823T	82K 1/4W	[M]
R348	ERDS2TJ392T	3.9K 1/4W	[M]
R349	ERDS2TJ102T	1K 1/4W	[M]
R350	ERDS2TJ151T	150 1/4W	[M]
R351	ERDS2TJ472T	4.7K 1/4W	[M]
R352	ERDS2TJ683T	68K 1/4W	[M]
R353	ERDS2TJ224T	220K 1/4W	[M]
R354	ERDS2TJ472T	4.7K 1/4W	[M]
R355	ERDS2TJ103T	10K 1/4W	[M]
R356	ERDS2TJ393T	39K 1/4W	[M]
R360	ERDS2TJ332T	3.3K 1/4W	[M]
R361	ERDS2TJ103T	10K 1/4W	[M]
R362	ERDS2TJ182T	1.8K 1/4W	[M]
R363	ERDS2TJ102T	1K 1/4W	[M]
R364	ERDS2TJ122T	1.2K 1/4W	[M]
R365	ERDS2TJ563T	56K 1/4W	[M]
R366	ERDS2TJ824T	820K 1/4W	[M]
R367	ERDS2TJ103T	10K 1/4W	[M]
R368	ERDS2TJ824T	820K 1/4W	[M]
R369	ERDS2TJ562T	5.6K 1/4W	[M]
R370	ERDS2TJ472T	4.7K 1/4W	[M]
R371	ERDS2TJ103T	10K 1/4W	[M]
R372	ERDS1FVJ180T	18 1/2W	[M]
R373	ERDS2TJ224T	220K 1/4W	[M]
R374	ERDS2TJ101T	100 1/4W	[M]
R375	ERDS2TJ563T	56K 1/4W	[M]
R376	ERDS2TJ102T	1K 1/4W	[M]
R377	ERDS2TJ103T	10K 1/4W	[M]
R379	ERDS2TJ103T	10K 1/4W	[M]
R385	ERDS2TJ392T	3.9K 1/4W	[M]
R386	ERDS2TJ392T	3.9K 1/4W	[M]
R387	ERDS2TJ123T	12K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R388	ERDS2TJ123T	12K 1/4W	[M]
R389	ERDS2TJ123T	12K 1/4W	[M]
R390	ERDS2TJ123T	12K 1/4W	[M]
R391	ERDS2TJ102T	1K 1/4W	[M]
R392	ERDS2TJ102T	1K 1/4W	[M]
R393	ERDS2TJ102T	1K 1/4W	[M]
R394	ERDS2TJ332T	3.3K 1/4W	[M]
R395	ERDS2TJ223T	22K 1/4W	[M]
R398	ERDS2TJ223T	22K 1/4W	[M]
R399	ERDS2TJ472T	4.7K 1/4W	[M]
R400	ERDS2TJ472T	4.7K 1/4W	[M]
R401	ERDS2TJ222T	2.2K 1/4W	[M]
R402	ERDS2TJ222T	2.2K 1/4W	[M]
R403	ERDS2TJ391T	390 1/4W	[M]
R404	ERDS2TJ1R8T	1.8 1/4W	[M]
R405	ERDS2TJ182T	1.8K 1/4W	[M]
R409	ERDS2TJ472T	4.7K 1/4W	[M]
R410	ERDS2TJ271T	270 1/4W	[M]
R452	ERJ6GEYJ182V	1.8K 1/10W	[M]GCS GT
R452	ERJ6GEYJ332V	3.3K 1/10W	[M]GN
R452	ERJ6GEYJ682V	6.8K 1/10W	[M]GK
R452	ERJ6GEYJ821V	820 1/10W	[M]GC
R453	ERJ6GEYJ103V	10K 1/10W	[M]
R454	ERJ6GEYJ103V	10K 1/10W	[M]
R455	ERJ6GEYJ221V	220 1/10W	[M]
R456	ERJ6GEYJ221V	220 1/10W	[M]
R457	ERJ6GEYJ221V	220 1/10W	[M]
R458	ERJ6GEYJ221V	220 1/10W	[M]
R459	ERJ6GEYJ221V	220 1/10W	[M]
R460	ERJ6GEYJ681V	680 1/10W	[M]
R461	ERJ6GEYJ472V	4.7K 1/10W	[M]
R462	ERJ6GEYJ473V	47K 1/10W	[M]
R463	ERJ6GEYJ472V	4.7K 1/10W	[M]
R465	ERJ6GEYJ472V	4.7K 1/10W	[M]
R473	ERJ6GEYJ103V	10K 1/10W	[M]
R474	ERJ6GEYJ102V	1K 1/10W	[M]
R475	ERJ6GEYJ102V	1K 1/10W	[M]
R476	ERJ6GEYJ123V	12K 1/10W	[M]
R477	ERJ6GEYJ103V	10K 1/10W	[M]
R481	ERJ6GEYJ472V	4.7K 1/10W	[M]
R482	ERDS2TJ4R7T	4.7 1/4W	[M]
R483	ERJ6GEYJ472V	4.7K 1/10W	[M]
R485	ERJ6GEYJ103V	10K 1/10W	[M]
R487	ERJ6GEYJ104V	100K 1/10W	[M]
R488	ERJ6GEYJ104V	100K 1/10W	[M]
R489	ERJ6GEYJ221V	220 1/10W	[M]
R490	ERJ6GEYJ221V	220 1/10W	[M]
R491	ERJ6GEYJ221V	220 1/10W	[M]
R492	ERJ6GEYJ221V	220 1/10W	[M]
R493	ERJ6GEYJ221V	220 1/10W	[M]
R495	ERJ6GEYJ472V	4.7K 1/10W	[M]
R496	ERJ6GEYJ221V	220 1/10W	[M]
R497	ERJ6GEYJ221V	220 1/10W	[M]
R501	ERDS2TJ562T	5.6K 1/4W	[M]
R502	ERDS2TJ393T	39K 1/4W	[M]
R503	ERD25FVJ331T	330 1/4W	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
R504	ERDS2TJ153T	15K 1/4W	[M]
R505	ERDS2TJ153T	15K 1/4W	[M]
R506	ERDS2TJ332T	3.3K 1/4W	[M]
R507	ERDS2TJ153T	15K 1/4W	[M]
R508	ERDS2TJ153T	15K 1/4W	[M]
R509	ERDS2TJ153T	15K 1/4W	[M]
R510	ERDS2TJ153T	15K 1/4W	[M]
R511	ERDS2TJ392T	3.9K 1/4W	[M]
R512	ERDS2TJ392T	3.9K 1/4W	[M]
R513	ERDS2TJ332T	3.3K 1/4W	[M]
R514	ERDS2TJ332T	3.3K 1/4W	[M]
R515	ERDS2TJ563T	56K 1/4W	[M]
R516	ERDS2TJ563T	56K 1/4W	[M]
R517	ERDS2TJ563T	56K 1/4W	[M]
R518	ERDS2TJ563T	56K 1/4W	[M]
R519	ERDS2TJ563T	56K 1/4W	[M]
R520	ERDS2TJ563T	56K 1/4W	[M]
R521	ERDS2TJ392T	3.9K 1/4W	[M]
R522	ERDS2TJ392T	3.9K 1/4W	[M]
R523	ERDS2TJ474T	470K 1/4W	[M]
R524	ERDS2TJ103T	10K 1/4W	[M]
R525	ERDS2TJ393T	39K 1/4W	[M]
R526	ERDS2TJ124T	120K 1/4W	[M]
R527	ERDS2TJ154T	150K 1/4W	[M]
R528	ERDS2TJ154T	150K 1/4W	[M]
R529	ERDS2TJ124T	120K 1/4W	[M]
R530	ERDS2TJ100T	10 1/4W	[M]
R531	ERDS2TJ124T	120K 1/4W	[M]
R532	ERDS2TJ124T	120K 1/4W	[M]
R533	ERDS1FVJ272T	2.7K 1/2W	[M]GC GCS GK GT ⚠
R534	ERDS1FVJ272T	2.7K 1/2W	[M]GC GCS GK GT ⚠
R535	ERDS1FVJ222T	2.2K 1/2W	[M]GN ⚠
R535	ERDS1FVJ561T	560 1/2W	[M]GC GCS GK GT ⚠
R536	ERDS2TJ103T	10K 1/4W	[M]
R537	ERDS2TJ223T	22K 1/4W	[M]
R538	ERDS2TJ104T	100K 1/4W	[M]
R539	ERDS2TJ100T	10 1/4W	[M]
R540	ERDS2TJ100T	10 1/4W	[M]
R541	ERDS1FVJ100T	10 1/2W	[M]
R542	ERDS1FVJ100T	10 1/2W	[M]
R543	ERDS1FVJ100T	10 1/2W	[M] ⚠
R544	ERDS1FVJ100T	10 1/2W	[M] ⚠
R545	ERDS1FVJ100T	10 1/2W	[M] ⚠
R546	ERDS1FVJ100T	10 1/2W	[M] ⚠
R547	ERDS2TJ2R2T	2.2 1/4W	[M]
R548	ERDS2TJ2R2T	2.2 1/4W	[M]
R549	ERDS2TJ183T	18K 1/4W	[M]
R550	ERDS2TJ682T	6.8K 1/4W	[M]
R551	ERDS2TJ103T	10K 1/4W	[M]
R553	ERDS2TJ682T	6.8K 1/4W	[M]
R561	ERDS1FVJ472T	4.7K 1/2W	[M] ⚠
R562	ERDS2TJ3R3T	3.3 1/4W	[M]
R563	ERDS2TJ561T	560 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R564	ERDS1FVJ6R8T	6.8 1/2W	[M] ⚠
R565	ERDS2TJ151T	150 1/4W	[M]
R566	ERDS2TJ152T	1.5K 1/4W	[M]
R567	ERD2FCVG100T	10 1/4W	[M] ⚠
R568	ERDS1FVJ220T	22 1/2W	[M] ⚠
R570	ERDS2TJ332T	3.3K 1/4W	[M]
R571	ERDS2TJ271T	270 1/4W	[M]
R573	ERDS2TJ2R2T	2.2 1/4W	[M]
R574	ERDS2TJ272T	2.7K 1/4W	[M]
R575	ERDS2TJ272T	2.7K 1/4W	[M]
R576	ERDS2TJ391T	390 1/4W	[M]
R577	ERDS2TJ560T	56 1/4W	[M]
R579	ERDS2TJ180T	18 1/4W	[M]
R580	ERDS2TJ180T	18 1/4W	[M]
R585	ERDS2TJ824T	820K 1/4W	[M]
R589	ERDS2TJ102T	1K 1/4W	[M]
R591	RSFMB40KT-L	FUSE PROTECTOR	[M] ⚠
R593	ERDS2TJ103T	10K 1/4W	[M]
R594	ERDS2TJ103T	10K 1/4W	[M]
R596	ERDS2TJ821T	820 1/4W	[M]GC GCS GT
R597	ERDS2TJ102T	1K 1/4W	[M]GK GN
R597	ERDS2TJ821T	820 1/4W	[M]GC GCS GT
R599	ERDS2TJ151T	150 1/4W	[M]GK GN
R609	ERDS2TJ473T	47K 1/4W	[M]
R613	ERDS2TJ102T	1K 1/4W	[M]
R626	ERDS2TJ681T	680 1/4W	[M]
R627	ERDS2TJ473T	47K 1/4W	[M]
R628	ERDS2TJ473T	47K 1/4W	[M]
R631	ERDS2TJ1R0T	1 1/4W	[M]
R632	ERDS2TJ1R0T	1 1/4W	[M]
R640	ERDS2TJ101T	100 1/4W	[M]
R641	ERDS2TJ101T	100 1/4W	[M]
R642	ERDS2TJ101T	100 1/4W	[M]
R643	ERDS2TJ103T	10K 1/4W	[M]
R644	ERDS2TJ103T	10K 1/4W	[M]
R645	ERDS2TJ103T	10K 1/4W	[M]
R648	ERDS2TJ224T	220K 1/4W	[M]
R649	ERDS2TJ473T	47K 1/4W	[M]
R650	ERDS2TJ223T	22K 1/4W	[M]
R651	ERDS2TJ102T	1K 1/4W	[M]
R652	ERDS2TJ103T	10K 1/4W	[M]
R653	ERDS2TJ106T	10M 1/4W	[M]
R654	ERDS2TJ334T	330K 1/4W	[M]
R655	ERDS2TJ331T	330 1/4W	[M]
R656	ERDS2TJ223T	22K 1/4W	[M]
R657	ERDS2TJ473T	47K 1/4W	[M]
R661	ERDS2TJ101T	100 1/4W	[M]
R662	ERDS2TJ101T	100 1/4W	[M]
R663	ERDS2TJ101T	100 1/4W	[M]
R664	ERDS2TJ101T	100 1/4W	[M]
R665	ERDS2TJ101T	100 1/4W	[M]
R666	ERDS2TJ101T	100 1/4W	[M]
R667	ERDS2TJ101T	100 1/4W	[M]
R671	ERDS2TJ104T	100K 1/4W	[M]
R672	ERDS2TJ104T	100K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R673	ERDS2TJ104T	100K 1/4W	[M]
R674	ERDS2TJ104T	100K 1/4W	[M]
R675	ERDS2TJ104T	100K 1/4W	[M]
R676	ERDS2TJ104T	100K 1/4W	[M]
R677	ERDS2TJ104T	100K 1/4W	[M]
R678	ERDS2TJ104T	100K 1/4W	[M]
R679	ERDS2TJ104T	100K 1/4W	[M]
R680	ERDS2TJ223T	22K 1/4W	[M]
R681	ERDS2TJ104T	100K 1/4W	[M]
R682	ERDS2TJ104T	100K 1/4W	[M]
R683	ERDS2TJ104T	100K 1/4W	[M]
R688	ERDS2TJ680T	68 1/4W	[M]
R689	ERDS2TJ680T	68 1/4W	[M]
R694	ERDS2TJ104T	100K 1/4W	[M]
R695	ERDS2TJ223T	22K 1/4W	[M]
R696	ERDS2TJ223T	22K 1/4W	[M]
R697	ERDS2TJ472T	4.7K 1/4W	[M]
R700	RSFMB20KT-L	PROTECTOR	[M] ⚠
R701	ERJ6GEYJ102V	1K 1/10W	[M]
R702	RSFMB40KT-L	FUSE PROTECTOR	[M] ⚠
R703	ERJ6GEYJ104V	100K 1/10W	[M]
R704	ERJ6GEYJ104V	100K 1/10W	[M]
R705	ERJ6GEYJ103V	10K 1/10W	[M]
R706	ERJ6GEYJ103V	10K 1/10W	[M]
R707	ERJ6GEYJ223V	22K 1/10W	[M]
R708	ERJ6GEYJ223V	22K 1/10W	[M]
R709	ERJ6GEYJ183V	18K 1/10W	[M]
R710	ERJ6GEYJ273V	27K 1/10W	[M]
R711	ERJ6GEYJ102V	1K 1/10W	[M]
R713	ERJ6GEYJ102V	1K 1/10W	[M]
R714	ERJ6GEYJ102V	1K 1/10W	[M]
R715	ERJ6GEYJ102V	1K 1/10W	[M]
R716	ERJ6GEYJ102V	1K 1/10W	[M]
R717	ERJ6GEYJ473V	47K 1/10W	[M]
R718	ERJ6GEYJ473V	47K 1/10W	[M]
R719	ERJ6GEYJ334V	330K 1/10W	[M]
R720	ERJ6GEYJ472V	4.7K 1/10W	[M]
R721	ERJ6GEYJ681V	680 1/10W	[M]
R722	ERJ6GEYJ221V	220 1/10W	[M]
R725	ERJ6GEYJ222V	2.2K 1/10W	[M]
R726	ERJ6GEYJ123V	12K 1/10W	[M]
R729	ERJ6GEYJ104V	100K 1/10W	[M]
R730	ERJ6GEYJ104V	100K 1/10W	[M]
R731	ERJ6GEYJ103V	10K 1/10W	[M]
R732	ERJ6GEYJ103V	10K 1/10W	[M]
R733	ERJ6GEYJ223V	22K 1/10W	[M]
R734	ERJ6GEYJ223V	22K 1/10W	[M]
R737	ERJ6GEYJ183V	18K 1/10W	[M]
R738	ERJ6GEYJ183V	18K 1/10W	[M]
R739	ERJ6GEYJ102V	1K 1/10W	[M]
R740	ERJ6GEYJ102V	1K 1/10W	[M]
R741	ERJ6GEYJ102V	1K 1/10W	[M]
R742	ERJ6GEYJ102V	1K 1/10W	[M]
R743	ERJ6GEYJ473V	47K 1/10W	[M]
R744	ERJ6GEYJ473V	47K 1/10W	[M]
R745	ERJ6GEYJ103V	10K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R746	ERJ6GEYJ103V	10K 1/10W	[M]
R747	ERJ6GEYJ223V	22K 1/10W	[M]
R749	ERJ6GEYJ104V	100K 1/10W	[M]
R750	ERJ6GEYJ104V	100K 1/10W	[M]
R751	ERJ6GEYJ103V	10K 1/10W	[M]
R752	ERJ6GEYJ103V	10K 1/10W	[M]
R753	ERJ6GEYJ223V	22K 1/10W	[M]
R754	ERJ6GEYJ223V	22K 1/10W	[M]
R757	ERJ6GEYJ183V	18K 1/10W	[M]
R758	ERJ6GEYJ183V	18K 1/10W	[M]
R759	ERJ6GEYJ102V	1K 1/10W	[M]
R760	ERJ6GEYJ102V	1K 1/10W	[M]
R761	ERJ6GEYJ102V	1K 1/10W	[M]
R762	ERJ6GEYJ102V	1K 1/10W	[M]
R763	ERJ6GEYJ473V	47K 1/10W	[M]
R764	ERJ6GEYJ473V	47K 1/10W	[M]
R765	ERJ6GEYJ104V	100K 1/10W	[M]
R766	ERJ6GEYJ154V	150K 1/10W	[M]
R767	ERJ6GEYJ681V	680 1/10W	[M]
R768	ERJ6GEYJ472V	4.7K 1/10W	[M]
R770	ERJ6GEYJ562V	5.6K 1/10W	[M]
R771	ERJ6GEYJ103V	10K 1/10W	[M]
R772	ERJ6GEYJ473V	47K 1/10W	[M]
R773	ERJ6GEYJ222V	2.2K 1/10W	[M]
R774	ERJ6GEYJ333V	33K 1/10W	[M]
R775	ERJ6GEYJ334V	330K 1/10W	[M]
R776	ERJ6GEYJ223V	22K 1/10W	[M]
R777	ERJ6GEYJ223V	22K 1/10W	[M]
R778	ERJ6GEYJ102V	1K 1/10W	[M]
R779	ERJ6GEYJ184V	180K 1/10W	[M]
R780	ERJ8GEYJ102V	1K 1/8W	[M]
R781	ERX1SJR33E	33 1W	[M] ⚠
R782	ERJ8GEYJ102V	1K 1/8W	[M]
R783	ERX1SJR33E	33 1W	[M] ⚠
R784	ERJ6GEYJ471V	470 1/10W	[M]
R785	ERJ6GEYJ471V	470 1/10W	[M]
R786	ERJ6GEYJ223V	22K 1/10W	[M]
R787	ERJ6GEYJ153V	15K 1/10W	[M]
R788	ERJ6GEYJ153V	15K 1/10W	[M]
R789	ERJ6GEYJ103V	10K 1/10W	[M]
R790	ERJ6GEYJ103V	10K 1/10W	[M]
R791	ERJ6GEYJ153V	15K 1/10W	[M]
R792	ERJ6GEYJ153V	15K 1/10W	[M]
R793	ERJ6GEYJ472V	4.7K 1/10W	[M]
R794	ERJ6GEYJ472V	4.7K 1/10W	[M]
R795	ERJ6GEYJ563V	56K 1/10W	[M]
R796	ERJ6GEYJ563V	56K 1/10W	[M]
R797	ERJ6GEYJ153V	15K 1/10W	[M]
R798	ERJ6GEYJ101V	100 1/10W	[M]
R799	ERJ6GEYJ151V	150 1/10W	[M]
R801	ERJ6GEYJ472V	4.7K 1/10W	[M]
R803	ERJ6GEYJ102V	1K 1/10W	[M]
R804	ERJ6GEYJ102V	1K 1/10W	[M]
R805	ERJ6GEYJ224V	220K 1/10W	[M]
R806	ERJ6GEYJ103V	10K 1/10W	[M]
R807	ERJ6GEYJ103V	10K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R808	ERJ6GEYJ221V	220 1/10W	[M]
R809	ERJ6GEYJ221V	220 1/10W	[M]
R810	ERJ6GEYJ221V	220 1/10W	[M]
R813	ERJ6GEYJ103V	10K 1/10W	[M]
R814	ERJ6GEYJ2R2V	2.2 1/10W	[M]
R815	ERJ6GEYJ103V	10K 1/10W	[M]
R816	ERJ6GEYJ105V	1M 1/10W	[M]
R817	ERDS2TJ104T	100K 1/4W	[M]
R817	ERJ6GEYJ271V	270 1/10W	[M]
R818	ERDS2TJ153T	15K 1/4W	[M]
R818	ERJ6GEYJ271V	270 1/10W	[M]
R819	ERJ6GEYJ221V	220 1/10W	[M]
R820	ERDS2TJ274T	270K 1/4W	[M]
R820	ERJ6GEYJ221V	220 1/10W	[M]
R821	ERDS2TJ822T	8.2K 1/4W	[M]
R821	ERJ6GEYJ104V	100K 1/10W	[M]
R822	ERDS2TJ272T	2.7K 1/4W	[M]
R822	ERJ6GEYJ104V	100K 1/10W	[M]
R823	ERDS2TJ272T	2.7K 1/4W	[M]
R823	ERJ6GEYJ271V	270 1/10W	[M]
R824	ERDS2TJ823T	82K 1/4W	[M]
R824	ERJ6GEYJ271V	270 1/10W	[M]
R825	ERDS2TJ153T	15K 1/4W	[M]
R825	ERJ6GEYJ271V	270 1/10W	[M]
R826	ERDS2TJ153T	15K 1/4W	[M]
R826	ERJ6GEYJ271V	270 1/10W	[M]
R827	ERDS2TJ393T	39K 1/4W	[M]
R827	ERJ6GEYJ221V	220 1/10W	[M]
R828	ERDS2TJ823T	82K 1/4W	[M]
R828	ERJ6GEYJ221V	220 1/10W	[M]
R829	ERJ6GEYJ271V	270 1/10W	[M]
R830	ERJ6GEYJ271V	270 1/10W	[M]
R830	ERDS2TJ393T	39K 1/4W	[M]
R831	ERDS2TJ222T	2.2K 1/4W	[M]
R831	ERJ6GEYJ271V	270 1/10W	[M]
R832	ERDS2TJ102T	1K 1/4W	[M]
R832	ERJ6GEYJ221V	220 1/10W	[M]
R833	ERJ6GEYJ104V	100K 1/10W	[M]
R834	ERJ6GEYJ103V	10K 1/10W	[M]
R835	ERJ6GEYJ333V	33K 1/10W	[M]
R836	ERJ6GEYJ103V	10K 1/10W	[M]
R837	ERJ6GEYJ103V	10K 1/10W	[M]
R838	ERJ6GEYJ221V	220 1/10W	[M]
R839	ERDS2TJ102T	1K 1/4W	[M]
R839	ERJ6GEYJ562V	5.6K 1/10W	[M]
R840	ERDS2TJ102T	1K 1/4W	[M]
R840	ERJ6GEYJ562V	5.6K 1/10W	[M]
R841	ERDS2TJ332T	3.3K 1/4W	[M]
R841	ERJ6GEYJ562V	5.6K 1/10W	[M]
R842	ERJ6GEYJ562V	5.6K 1/10W	[M]
R843	ERJ6GEYJ221V	220 1/10W	[M]
R844	ERJ6GEYJ221V	220 1/10W	[M]
R845	ERJ6GEYJ182V	1.8K 1/10W	[M]
R846	ERJ6GEYJ182V	1.8K 1/10W	[M]
R847	ERJ6GEYJ104V	100K 1/10W	[M]
R848	ERJ6GEYJ104V	100K 1/10W	[M]
R849	ERJ6GEYJ560V	56 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R851	ERJ6GEYJ331V	330 1/10W	[M]
R857	ERJ6GEYJ103V	10K 1/10W	[M]
R859	ERJ6GEYJ271V	270 1/10W	[M]
R860	ERJ6GEYJ103V	10K 1/10W	[M]
R862	ERJ6GEYJ101V	100 1/10W	[M]
R863	ERJ6GEYJ101V	100 1/10W	[M]
R864	ERJ6GEYJ101V	100 1/10W	[M]
R865	ERJ6GEYJ274V	270K 1/10W	[M]
R866	ERJ6GEYJ334V	330K 1/10W	[M]
R870	ERJ6GEYJ271V	270 1/10W	[M]
R871	ERJ6GEYJ472V	4.7K 1/10W	[M]
R872	ERJ6GEYJ332V	3.3K 1/10W	[M]
R873	ERJ6GEYJ272V	2.7K 1/10W	[M]
R874	ERJ6GEYJ472V	4.7K 1/10W	[M]
R875	ERJ6GEYJ104V	100K 1/10W	[M]
R876	ERJ6GEYJ104V	100K 1/10W	[M]
R877	ERDS2TJ473T	47K 1/4W	[M]
R877	ERJ6GEYJ222V	2.2K 1/10W	[M]
R878	ERDS2TJ473T	47K 1/4W	[M]
R878	ERJ6GEYJ222V	2.2K 1/10W	[M]
R879	ERJ6GEYJ104V	100K 1/10W	[M]
R880	ERJ6GEYJ104V	100K 1/10W	[M]
R881	ERJ6GEYJ682V	6.8K 1/10W	[M]
R882	ERJ6GEYJ682V	6.8K 1/10W	[M]
R883	ERJ6GEYJ123V	12K 1/10W	[M]
R884	ERJ6GEYJ123V	12K 1/10W	[M]
R885	ERJ6GEYJ682V	6.8K 1/10W	[M]
R886	ERJ6GEYJ682V	6.8K 1/10W	[M]
R887	ERJ6GEYJ822V	8.2K 1/10W	[M]
R888	ERJ6GEYJ822V	8.2K 1/10W	[M]
R889	ERJ6GEYJ153V	15K 1/10W	[M]
R890	ERJ6GEYJ104V	100K 1/10W	[M]
R891	ERJ6GEYJ682V	6.8K 1/10W	[M]
R892	ERJ6GEYJ102V	1K 1/10W	[M]
R893	ERJ6GEYJ223V	22K 1/10W	[M]
R894	ERJ6GEYJ223V	22K 1/10W	[M]
R895	ERJ6GEYJ222V	2.2K 1/10W	[M]
R896	ERJ6GEYJ222V	2.2K 1/10W	[M]
R897	ERJ6GEYJ682V	6.8K 1/10W	[M]
R898	ERDS2TJ683T	68K 1/4W	[M]
R898	ERJ6GEYJ682V	6.8K 1/10W	[M]
R899	ERDS2TJ683T	68K 1/4W	[M]
R901	ERDS2TJ101T	100 1/4W	[M]
R902	ERDS2TJ101T	100 1/4W	[M]
R903	ERDS2TJ101T	100 1/4W	[M]
R904	ERDS2TJ102T	1K 1/4W	[M]
R905	ERDS2TJ101T	100 1/4W	[M]
R906	ERDS2TJ101T	100 1/4W	[M]
R907	ERDS2TJ101T	100 1/4W	[M]
R908	ERDS2TJ101T	100 1/4W	[M]
R909	ERDS2TJ101T	100 1/4W	[M]
R910	ERDS2TJ103T	10K 1/4W	[M]
R911	ERDS2TJ101T	100 1/4W	[M]
R911	ERDS2TJ103T	10K 1/4W	[M]
R912	ERDS2TJ101T	100 1/4W	[M]
R912	ERDS2TJ104T	100K 1/4W	[M]
R913	ERDS2TJ101T	100 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R914	ERDS2TJ101T	100 1/4W	[M]
R915	ERDS2TJ222T	2.2K 1/4W	[M]
R916	ERDS2TJ221T	220 1/4W	[M]
R917	ERDS2TJ101T	100 1/4W	[M]
R918	ERDS2TJ222T	2.2K 1/4W	[M]
R919	ERDS2TJ102T	1K 1/4W	[M]
R921	ERDS2TJ102T	1K 1/4W	[M]
R922	ERDS2TJ122T	1.2K 1/4W	[M]
R923	ERDS2TJ182T	1.8K 1/4W	[M]
R924	ERDS2TJ222T	2.2K 1/4W	[M]
R932	ERDS2TJ331T	330 1/4W	[M]
R933	ERDS2TJ102T	1K 1/4W	[M]
R936	ERDS2TJ102T	1K 1/4W	[M]
R937	ERDS2TJ561T	560 1/4W	[M]
R938	ERDS2TJ561T	560 1/4W	[M]
R939	ERDS2TJ561T	560 1/4W	[M]
R940	ERDS2TJ561T	560 1/4W	[M]
R941	ERDS2TJ561T	560 1/4W	[M]
R954	ERDS2TJ102T	1K 1/4W	[M]
R955	ERDS2TJ102T	1K 1/4W	[M]
R956	ERDS2TJ122T	1.2K 1/4W	[M]
R957	ERDS2TJ182T	1.8K 1/4W	[M]
R959	ERDS2TJ222T	2.2K 1/4W	[M]
R960	ERDS2TJ272T	2.7K 1/4W	[M]
R971	ERDS2TJ102T	1K 1/4W	[M]
R972	ERDS2TJ102T	1K 1/4W	[M]
R973	ERDS2TJ122T	1.2K 1/4W	[M]
R974	ERDS2TJ182T	1.8K 1/4W	[M]
R975	ERDS2TJ222T	2.2K 1/4W	[M]
R982	ERDS2TJ681T	680 1/4W	[M]
R983	ERDS2TJ681T	680 1/4W	[M]GC GCS GK GT
R984	ERDS2TJ561T	560 1/4W	[M]GC GCS GK GT
R985	ERDS2TJ472T	4.7K 1/4W	[M]GC GCS GK GT
R986	ERDS2TJ474T	470K 1/4W	[M]GC GCS GK GT
R987	ERDS2TJ222T	2.2K 1/4W	[M]GC GCS GK GT
R988	ERDS2TJ471T	470 1/4W	[M]GC GCS GK GT
R989	ERDS2TJ103T	10K 1/4W	[M]GC GCS GK GT
R990	ERDS2TJ331T	330 1/4W	[M]GC GCS GK GT
R991	ERDS2TJ471T	470 1/4W	[M]GC GCS GK GT
R992	ERDS2TJ105T	1M 1/4W	[M]GC GCS GK GT
R994	ERDS2TJ101T	100 1/4W	[M]GC GCS GK GT
R1301	ERJ6GEYJ103V	10K 1/10W	[M]
R1302	ERJ6GEYJ122V	1.2K 1/10W	[M]
R1303	ERJ6GEYJ152V	1.5K 1/10W	[M]
R1304	ERJ6GEYJ101V	100 1/10W	[M]
R1305	ERJ6GEYJ103V	10K 1/10W	[M]
R1306	ERJ6GEYJ561V	560 1/10W	[M]
R1307	ERJ6GEYJ222V	2.2K 1/10W	[M]
R1308	ERJ6GEYJ821V	820 1/10W	[M]
R1309	ERJ6GEYJ223V	22K 1/10W	[M]
R1310	ERJ6GEYJ221V	220 1/10W	[M]
R1311	ERJ6GEYJ153V	15K 1/10W	[M]
R1312	ERJ6GEYJ272V	2.7K 1/10W	[M]
R1313	ERJ6GEYJ561V	560 1/10W	[M]
R1314	ERJ6GEYD102V	1K 1/10W	[M]
R1315	ERJ6GEYD102V	1K 1/10W	[M]
R1316	ERJ6GEYD102V	1K 1/10W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1317	ERJ6GEYJ471V	470 1/10W	[M]
R1318	ERJ6GEYD750V	75 1/10W	[M]
R1319	ERJ6GEYD750V	75 1/10W	[M]
R1320	ERJ6GEYJ472V	4.7K 1/10W	[M]
R1321	ERJ6GEYD750V	75 1/10W	[M]
R1322	ERJ6GEYJ103V	10K 1/10W	[M]
R1323	ERJ6GEYJ103V	10K 1/10W	[M]
R1325	ERJ6GEYJ101V	100 1/10W	[M]
R1326	ERJ6GEYJ101V	100 1/10W	[M]
R1327	ERJ6GEYJ101V	100 1/10W	[M]
R1328	ERJ6GEYJ101V	100 1/10W	[M]
R1329	ERJ6GEYJ101V	100 1/10W	[M]
R1330	ERJ6GEYJ101V	100 1/10W	[M]
R1331	ERJ6GEYJ103V	10K 1/10W	[M]
R1332	ERJ6GEYJ103V	10K 1/10W	[M]
R1333	ERJ6GEYJ103V	10K 1/10W	[M]
R1334	ERJ6GEYJ103A	10K 1/10W	[M]
R1335	ERJ6GEYJ103A	10K 1/10W	[M]
R2001	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2003	ERJ3GEYJ223A	22K 1/16W	[SPC]
R2004	ERJ3GEYJ123A	12K 1/16W	[SPC]
R2005	ERJ3GEYJ183V	18K 1/16W	[SPC]
R2006	ERJ3GEYJ822V	8.2K 1/16W	[SPC]
R2008	ERJ3GEYJ473A	47K 1/16W	[SPC]
R2009	ERJ3GEYJ473A	47K 1/16W	[SPC]
R2010	ERJ3GEYJ473A	47K 1/16W	[SPC]
R2011	EXBV4V473JV	47K 1/16W	[SPC]
R2014	ERJ3GEYJ472V	4.7K 1/16W	[SPC]
R2016	ERJ3GEYJ102A	1K 1/16W	[SPC]
R2018	EXBV8VR000V	0 1/16W	[SPC]
R2019	ERJ3GEY0R00A	0 1/16W	[SPC]
R2020	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2021	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2022	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2023	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2024	ERJ3GEYJ333V	33K 1/16W	[SPC]
R2025	ERJ3GEYJ223A	22K 1/16W	[SPC]
R2026	ERJ3GEY0R00A	0 1/16W	[SPC]
R2027	ERJ3GEYJ123A	12K 1/16W	[SPC]
R2028	ERJ3GEYJ473A	47K 1/16W	[SPC]
R2029	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2030	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2031	ERJ3GEYF683V	68K 1/16W	[SPC]
R2032	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2033	ERJ3GEY0R00A	0 1/16W	[SPC]
R2034	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2035	ERJ3GEYJ333V	33K 1/16W	[SPC]
R2036	ERJ3RBD103V	10K 1/16W	[SPC]
R2037	ERJ3RBD103V	10K 1/16W	[SPC]
R2038	ERJ3GEYF683V	68K 1/16W	[SPC]
R2039	ERJ3GEYF362V	3.6K 1/16W	[SPC]
R2501	ERJ3GEYJ473A	47K 1/16W	[SPC]
R2502	ERJ3RBD183V	18K 1/16W	[SPC]
R2503	ERJ3RBD183V	18K 1/16W	[SPC]
R2504	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2505	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2506	ERJ3GEYJ103A	10K 1/16W	[SPC]

Ref. No.	Part No.	Part Name & Description	Remarks
R2507	ERJ3GEYJ123A	12K 1/16W	[SPC]
R2508	ERJ3GEYJ123A	12K 1/16W	[SPC]
R2509	ERJ3GEYJ273V	27K 1/16W	[SPC]
R2510	ERJ3GEYJ271V	270 1/16W	[SPC]
R2511	ERJ3GEYJ271V	270 1/16W	[SPC]
R2512	ERJ3GEYJ273V	27K 1/16W	[SPC]
R2513	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2515	ERJ14YKR39H	39 1/4W	[SPC]
R2516	ERJ3GEYJ123A	12K 1/16W	[SPC]
R2517	ERJ3GEYJ123A	12K 1/16W	[SPC]
R2518	ERJ3GEYJ243V	24K 1/16W	[SPC]
R2519	ERJ3GEYJ243V	24K 1/16W	[SPC]
R2520	ERJ3RBD562V	5.6K 1/16W	[SPC]
R2521	ERJ3RBD563V	56K 1/16W	[SPC]
R2522	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2523	ERJ3GEYJ103A	10K 1/16W	[SPC]
R2524	ERJ3GEYJ103A	10K 1/16W	[SPC]
R3001	ERJ3GEYJ220V	22 1/16W	[SPC]
R3002	ERJ3GEY0R00A	0 1/16W	[SPC]
R3003	ERJ3GEYJ392V	3.9K 1/16W	[SPC]
R3005	ERJ3GEYJ103A	10K 1/16W	[SPC]
R3006	ERJ3GEYJ473A	47K 1/16W	[SPC]
R3008	ERJ3GEYJ473A	47K 1/16W	[SPC]
R3009	ERJ3GEYJ221V	220 1/16W	[SPC]
R3010	ERJ3GEYJ221V	220 1/16W	[SPC]
R3011	ERJ3GEYJ221V	220 1/16W	[SPC]
R3012	ERJ3GEYJ221V	220 1/16W	[SPC]
R3013	ERJ3GEYJ221V	220 1/16W	[SPC]
R3031	ERJ3RBD752V	7.5K 1/16W	[SPC]
R3032	ERJ3RBD752V	7.5K 1/16W	[SPC]
R3033	ERJ3GEYJ684V	680K 1/16W	[SPC]
R3035	ERJ3RBD102V	1K 1/16W	[SPC]
R3036	ERJ3RBD102V	1K 1/16W	[SPC]
R3037	ERJ3RBD102V	1K 1/16W	[SPC]
R3038	ERJ3RBD102V	1K 1/16W	[SPC]
R3039	ERJ3GEYJ102A	1K 1/16W	[SPC]
R3040	ERJ3GEYJ102A	1K 1/16W	[SPC]
R3201	ERJ3GEYF750V	75 1/16W	[SPC]
R3202	ERJ3GEYJ330V	33 1/16W	[SPC]
R3203	ERJ3GEYJ102A	1K 1/16W	[SPC]
R3211	ERJ3GEYF750V	75 1/16W	[SPC]
R3212	ERJ3GEYJ330V	33 1/16W	[SPC]
R3213	ERJ3GEYJ102A	1K 1/16W	[SPC]
R4241	ERJ3GEYJ151V	150 1/16W	[SPC]
R5201	ERJ12YJ270H	27 1/16W	[SPC]
R5202	ERJ3GEYJ2R2V	2.2 1/16W	[SPC]
R5203	ERJ3GEYJ223A	22K 1/16W	[SPC]
R5205	ERJ3GEYJ103A	10K 1/16W	[SPC]
R5206	ERJ3GEYJ103A	10K 1/16W	[SPC]
R5208	ERJ3GEYJ823V	82K 1/16W	[SPC]
R5209	ERJ3GEYJ123A	12K 1/16W	[SPC]
R5210	ERJ3GEYJ272V	2.7K 1/16W	[SPC]
R5211	ERJ3GEYJ393V	39K 1/16W	[SPC]
R5212	ERJ3GEYF123V	12K 1/16W	[SPC]
R5213	ERJ3GEYJ393V	39K 1/16W	[SPC]
R5214	ERJ3GEYJ223A	22K 1/16W	[SPC]
R5215	ERJ3GEYJ822V	8.2K 1/16W	[SPC]

Ref. No.	Part No.	Part Name & Description	Remarks
R5216	ERJ3GEYJ183V	18K 1/16W	[SPC]
R5217	ERJ3GEYJ223A	22K 1/16W	[SPC]
R5218	ERJ3GEYJ103A	10K 1/16W	[SPC]
R5219	ERJ3GEYJ153V	15K 1/16W	[SPC]
R5220	ERJ3GEYJ474V	470K 1/16W	[SPC]
R5221	ERJ3GEYJ474V	470K 1/16W	[SPC]
R5222	ERJ3GEYF332V	3.3K 1/16W	[SPC]
R5223	ERJ3GEYJ752V	7.5K 1/16W	[SPC]
R5224	ERJ3GEYJ154V	150K 1/16W	[SPC]
R5225	ERJ3GEYJ564V	560K 1/16W	[SPC]
R5226	ERJ3GEYJ155V	1.5M 1/16W	[SPC]
R6201	ERJ3GEYJ103A	10K 1/16W	[SPC]
R6202	ERJ3GEYJ473A	47K 1/16W	[SPC]
R6203	ERJ3GEYJ473A	47K 1/16W	[SPC]
R6204	ERJ3GEYJ473A	47K 1/16W	[SPC]
R6205	ERJ3GEYJ222V	2.2K 1/16W	[SPC]
R6206	ERJ3GEYJ473A	47K 1/16W	[SPC]
R6207	ERJ3GEYJ473A	47K 1/16W	[SPC]
R6208	ERJ3GEYJ473A	47K 1/16W	[SPC]
R6209	ERJ3RBD103V	10K 1/16W	[SPC]
R6301	ERJ3GEYJ103A	10K 1/16W	[SPC]
R6302	ERJ3GEYJ472V	4.7K 1/16W	[SPC]
R6303	ERJ3GEYJ472V	4.7K 1/16W	[SPC]
R6501	ERJ3GEYJ103A	10K 1/16W	[SPC]
R6502	ERJ3GEYJ103A	10K 1/16W	[SPC]
R6542	ERJ3GEYJ105V	1M 1/16W	[SPC]
R6544	ERJ3RBD101V	100 1/16W	[SPC]
R7001	ERJ3GEYJ102A	1K 1/16W	[SPC]
R7002	ERJ3GEYJ102A	1K 1/16W	[SPC]
R7003	ERJ3GEYJ473A	47K 1/16W	[SPC]
R7006	ERJ3GEYJ473A	47K 1/16W	[SPC]
			[SPC]
K3201	ERJ3GEY0R00A	0 1/16W	[SPC]
K3203	ERJ3GEY0R00A	0 1/16W	[SPC]
K5201	ERJ3GEY0R00A	0 1/16W	[SPC]
K5202	ERJ3GEY0R00A	0 1/16W	[SPC]
K5203	ERJ3GEY0R00A	0 1/16W	[SPC]
K5204	ERJ3GEY0R00A	0 1/16W	[SPC]
K5205	ERJ3GEY0R00A	0 1/16W	[SPC]
K6541	ERJ3GEY0R00A	0 1/16W	[SPC]
K6542	ERJ3GEY0R00A	0 1/16W	[SPC]
K7002	ERJ3GEY0R00A	0 1/16W	[SPC]
			[SPC]
RA2501	EXBV4V103JV	10K 1/16W	[SPC]
RA2502	EXBV4V103JV	10K 1/16W	[SPC]
RA3001	EXBV8V473JV	47K 1/16W	[SPC]
RA3002	EXBV4V473JV	47K 1/16W	[SPC]
RA6201	EXBV4V103JV	10K 1/16W	[SPC]
RA6203	EXBV4V473JV	47K 1/16W	[SPC]
RA6204	EXBV4V473JV	47K 1/16W	[SPC]
RA6205	EXBV4V473JV	47K 1/16W	[SPC]
RA6206	EXBV4V473JV	47K 1/16W	[SPC]
RA7001	EXBV8V473JV	47K 1/16W	[SPC]
RA7002	EXBV8V473JV	47K 1/16W	[SPC]
		CAPACITORS	

Ref. No.	Part No.	Part Name & Description	Remarks
C1	ECBT1H5R6KC5	5.6P 50V	[M]GC GCS GN GT
C1	ECEA1CKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C2	RCBS1H102KBY	1000P 50V	[M]GC GCS GN GT
C3	ECBT1H2R2KC5	2.2P 50V	[M]GC GCS GN GT
C4	ECBT1H181KB5	180P 50V	[M]GC GCS GN GT
C5	ECBT1H5R6KC5	5.6P 50V	[M]GC GCS GN GT
C6	ECBT1H3R3KC5	3.3P 50V	[M]GC GCS GN GT
C7	ECBT1H4R7KC5	4.7P 50V	[M]GC GCS GN GT
C8	ECBT1H3R3KC5	3.3P 50V	[M]GC GCS GN GT
C9	ECBT1H2R2KC5	2.2P 50V	[M]GC GCS GN GT
C10	ECBT1H180JC5	18P 50V	[M]GC GCS GN GT
C11	RCBS1H102KBY	1000P 50V	[M]GC GCS GN GT
C101	ECUV1H103KBN	0.01 50V	[M]
C102	ECEA1CKA100B	10 16V	[M]
C103	ECUV1H103KBN	0.01 50V	[M]
C104	ECUV1H102KBN	1000P 50V	[M]
C105	ECUV1H102KBN	1000P 50V	[M]
C106	ECUV1H103KBN	0.01 50V	[M]
C107	ECUV1E473KBN	0.047 25V	[M]
C108	ECUV1H080DCN	8P 50V	[M]
C109	ECUV1H102KBN	1000P 50V	[M]
C110	ECUV1H103KBN	0.01 50V	[M]
C111	ECEA1EKA4R7B	4.7 25V	[M]
C112	ECUV1H103KBN	0.01 50V	[M]
C113	ECUV1H102KBN	1000P 50V	[M]
C114	ECEA1HKA3R3B	3.3 50V	[M]
C115	ECEA1EKA4R7B	4.7 25V	[M]
C116	ECUVNE333KBN	0.033 25V	[M]
C117	ECUV1H103KBN	0.01 50V	[M]
C118	ECUV1H103KBN	0.01 50V	[M]
C119	ECQP2A561JZT	560P 100V	[M]GK
C119	ECQP2A681JZT	680P 100V	[M]GC GCS GN GT
C120	ECEA1CKA100B	10 16V	[M]
C121	ECEA1HKAR47B	0.47 50V	[M]
C122	ECEA1HKA010B	1 50V	[M]
C123	ECEA1HKA010B	1 50V	[M]
C124	ECUV1H101KCN	100P 50V	[M]
C125	ECEA1CKA220B	22 16V	[M]
C126	ECUV1C105ZFN	10 16V	[M]GC GCS GK GT
C126	ECUVNC105ZFN	10 16V	[M]GN
C127	ECEA1CKA220B	22 16V	[M]
C129	ECEA0JKA101B	100 6.3V	[M]
C130	ECEA0JKA101B	100 6.3V	[M]
C131	ECUV1H101KCN	100P 50V	[M]
C132	ECUV1H102KBN	1000P 50V	[M]
C133	ECUV1H270JCN	27P 50V	[M]
C134	ECUV1H270JCN	27P 50V	[M]
C136	ECUV1H102KBN	1000P 50V	[M]
C137	ECUV1H332KBN	3300P 50V	[M]
C138	ECUV1H103KBN	0.01 50V	[M]
C139	ECEA1EKA4R7B	4.7 25V	[M]
C141	ECEA1HKA010B	1 50V	[M]
C142	ECEA1HKA010B	1 50V	[M]
C143	ECUV1H472KBN	4700P 50V	[M]
C144	ECUV1H472KBN	4700P 50V	[M]
C147	ECUV1H102KBN	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C148	ECUV1H103KBN	0.01 50V	[M]
C149	ECUV1E104KBN	0.1 25V	[M]GN
C149	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C201	ECUV1H101KCN	100P 50V	[M]
C202	ECUV1H101KCN	100P 50V	[M]
C203	ECUV1E104KBN	0.1 25V	[M]GN
C203	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C204	ECUV1H103KBN	0.01 50V	[M]
C206	ECUV1H101KCN	100P 50V	[M]
C207	ECEA1HKA2R2B	2.2 50V	[M]
C208	ECEA1HKA2R2B	2.2 50V	[M]
C209	ECFR1C563KR	0.056 16V	[M]
C210	ECFR1C563KR	0.056 16V	[M]
C211	ECEA1HKAR15B	0.15 50V	[M]
C212	ECEA1HKAR15B	0.15 50V	[M]
C213	ECFR1C223KR	0.022 16V	[M]
C214	ECFR1C223KR	0.022 16V	[M]
C215	ECFR1C393KR	0.039 16V	[M]
C216	ECFR1C393KR	0.039 16V	[M]
C217	ECFR1C223KR	0.022 16V	[M]
C218	ECFR1C223KR	0.022 16V	[M]
C219	ECUV1H332KBN	3300P 50V	[M]
C220	ECUV1H332KBN	3300P 50V	[M]
C221	ECUV1H222KBN	2200P 50V	[M]
C222	ECUV1H222KBN	2200P 50V	[M]
C223	ECUV1E272KBN	2700P 25V	[M]GC GCS GK GT
C223	ECUV1H272KBN	2700P 50V	[M]GN
C224	ECUV1E272KBN	2700P 25V	[M]GC GCS GK GT
C224	ECUV1H272KBN	2700P 50V	[M]GN
C225	ECUV1H152JCN	1500P 50V	[M]GC GCS GK GT
C225	ECUV1H152KBV	1500P 50V	[M]GN
C226	ECUV1H152JCN	1500P 50V	[M]GC GCS GK GT
C226	ECUV1H152KBV	1500P 50V	[M]GN
C227	ECEA1HKAR15B	0.15 50V	[M]
C228	ECEA1HKAR15B	0.15 50V	[M]
C229	ECUV1H102KBN	1000P 50V	[M]
C230	ECUV1H102KBN	1000P 50V	[M]
C231	ECEA1HKA2R2B	2.2 50V	[M]
C232	ECEA1HKA2R2B	2.2 50V	[M]
C233	ECUV1H471KBM	470P 50V	[M]
C234	ECUV1H471KBM	470P 50V	[M]
C235	ECEA1CKA100B	10 16V	[M]
C236	ECEA1CKA100B	10 16V	[M]
C237	ECUV1H221KBN	220P 50V	[M]
C238	ECUV1H152JCN	1500P 50V	[M]
C239	ECUV1E104KBN	0.1 25V	[M]GN
C239	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C240	ECA1AM331B	330 10V	[M]
C241	ECUV1H102KBN	1000P 50V	[M]
C242	ECUV1E104KBN	0.1 25V	[M]GN
C242	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C243	ECUV1E104KBN	0.1 25V	[M]GN
C243	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C244	ECUV1H470JCN	47P 50V	[M]
C245	ECUV1H470JCN	47P 50V	[M]
C246	ECUV1H220JCN	22P 50V	[M]
C247	ECUV1E104KBN	0.1 25V	[M]GN

Ref. No.	Part No.	Part Name & Description	Remarks
C247	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C248	ECUV1H103KBN	0.01 50V	[M]
C249	ECUV1H101KCN	100P 50V	[M]
C250	ECEA1CKA100B	10 16V	[M]
C251	ECUV1H103KBN	0.01 50V	[M]
C252	ECEA1HKA3R3B	3.3 50V	[M]
C253	ECEA1CKA100B	10 16V	[M]
C254	ECEA1CKA100B	10 16V	[M]
C255	ECBT1H223KB5	0.022 50V	[M]
C256	ECBT1H223KB5	0.022 50V	[M]
C257	ECUV1H101KCN	100P 50V	[M]
C258	ECUV1H101KCN	100P 50V	[M]
C259	ECBT1H101KB5	100P 50V	[M]
C260	ECBT1H101KB5	100P 50V	[M]
C261	ECBT1H470J5	47P 50V	[M]
C262	ECBT1H470J5	47P 50V	[M]
C263	ECBT1H102KB5	1000P 50V	[M]
C264	ECBT1H102KB5	1000P 50V	[M]
C265	ECUV1H101KCN	100P 50V	[M]
C266	ECUV1H101KCN	100P 50V	[M]
C267	ECBT1H103KB5	0.01 50V	[M]
C268	ECBT1H103KB5	0.01 50V	[M]
C289	ECBT1H103KB5	0.01 50V	[M]
C291	ECEA1HKA3R3B	3.3 50V	[M]
C292	ECEA1HKA3R3B	3.3 50V	[M]
C293	ECEA1CKA100B	10 16V	[M]
C294	ECEA1CKA100B	10 16V	[M]
C297	ECBT1H101KB5	100P 50V	[M]
C298	ECBT1H101KB5	100P 50V	[M]
C299	ECBT1H470J5	47P 50V	[M]
C300	ECBT1H470J5	47P 50V	[M]
C301	ECEA1CKA100B	10 16V	[M]
C302	ECEA1CKA100B	10 16V	[M]
C305	ECEA1CKA100B	10 16V	[M]
C306	ECEA1HKAR47B	0.47 50V	[M]
C309	ECBT1H681KB5	680P 50V	[M]
C310	ECBT1H470J5	47P 50V	[M]
C312	ECEA1CKA100B	10 16V	[M]
C314	ECBT1H103KB5	0.01 50V	[M]
C315	ECBT1H103KB5	0.01 50V	[M]
C316	ECBT1H470J5	47P 50V	[M]
C317	ECBT1H681KB5	680P 50V	[M]
C319	ECEA1CKA100B	10 16V	[M]
C320	ECEA1CKA100B	10 16V	[M]
C324	ECEA1HKA3R3B	3.3 50V	[M]
C325	ECEA1HKA100B	10 50V	[M]
C326	ECKR1H102ZF5	1000P 50V	[M]GC GCS GK GT
C326	ECKR2H102ZF5	1000P 500V	[M]GN
C327	ECEA1HKA4R7B	4.7 50V	[M]
C328	ECBT1H104KB5	0.1 50V	[M]
C329	ECEA0JKA101B	100 6.3V	[M]
C330	ECEA1CKA330B	33 16V	[M]
C331	ECEA1CKA100B	10 16V	[M]
C332	ECBT1H103KB5	0.01 50V	[M]
C333	ECEA0JKA221B	220 6.3V	[M]
C335	ECEA1CKA100B	10 16V	[M]
C341	ECEA1HKA010B	1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C342	ECEA1HKA010B	1 50V	[M]
C343	ECEA1HKA010B	1 50V	[M]
C344	ECEA1HKA010B	1 50V	[M]
C345	ECEA1CKA100B	10 16V	[M]
C346	ECEA1CKA100B	10 16V	[M]
C347	ECEA1CKA100B	10 16V	[M]
C348	ECEA1CKA100B	10 16V	[M]
C353	ECBT1H101KB5	100P 50V	[M]
C354	ECBT1H101KB5	100P 50V	[M]
C355	ECBT1H221KB5	220P 50V	[M]
C356	ECBT1H221KB5	220P 50V	[M]
C357	ECEA1AKA330B	33 10V	[M]
C358	ECEA1AKA330B	33 10V	[M]
C359	ECEA1CKA100B	10 16V	[M]
C360	ECEA1CKA100B	10 16V	[M]
C361	ECEA1HKA3R3B	3.3 50V	[M]
C362	ECEA1HKA3R3B	3.3 50V	[M]
C363	ECEA1CKA100B	10 16V	[M]
C364	ECEA1HKA2R2B	2.2 50V	[M]
C365	ECEA1HKAR15B	0.15 50V	[M]
C366	ECEA1HKAR15B	0.15 50V	[M]
C367	ECBT1H104KB5	0.1 50V	[M]
C368	ECBT1H103KB5	0.01 50V	[M]
C369	ECBT1H104KB5	0.1 50V	[M]
C370	ECBT1H470J5	47P 50V	[M]
C371	ECBT1H470J5	47P 50V	[M]
C372	ECEA1CKA100B	10 16V	[M]
C373	ECEA1CKA100B	10 16V	[M]
C374	ECEA1AKA221Q	220 10V	[M]
C375	ECBT1H101KB5	100P 50V	[M]
C375	ECEA1CKA100B	10 16V	[M]
C376	ECBT1H470J5	47P 50V	[M]
C376	ECEA1CKA100B	10 16V	[M]
C377	ECBT1H103KB5	0.01 50V	[M]
C378	ECBT1H103KB5	0.01 50V	[M]
C379	ECBT1H101KB5	100P 50V	[M]
C380	ECBT1H470J5	47P 50V	[M]
C381	ECEA1CKA100B	10 16V	[M]
C399	ECUV1H103KBN	0.01 50V	[M]
C452	ECUV1E223KBN	0.022 25V	[M]
C453	ECUV1H103KBN	0.01 50V	[M]
C454	ECEA0JKA470B	47 6.3V	[M]
C455	ECUV1H103KBN	0.01 50V	[M]
C456	ECUV1H103KBN	0.01 50V	[M]
C457	ECUV1H103KBN	0.01 50V	[M]
C467	ECUV1H103KBN	0.01 50V	[M]
C500	ECKWRS102MBC	1000P 400V	[M]
C501	ECBT1H102KB5	1000P 50V	[M]
C503	ECBT1H103KB5	0.01 50V	[M]
C504	ECBT1H471KB5	470P 50V	[M]
C505	ECBT1H471KB5	470P 50V	[M]
C507	ECBT1H471KB5	470P 50V	[M]
C508	ECBT1H471KB5	470P 50V	[M]
C509	ECBT1H471KB5	470P 50V	[M]
C510	ECBT1H471KB5	470P 50V	[M]
C511	ECBT1H220JC5	22P 50V	[M]
C512	ECBT1H220JC5	22P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C513	ECBT1H220JC5	22P 50V	[M]
C514	ECBT1H220JC5	22P 50V	[M]
C515	ECKR2H103ZF5	0.01 500V	[M]
C516	ECKR2H103ZF5	0.01 500V	[M]
C517	ECEA1HKNR47B	0.47 50V	[M]
C518	ECEA0JKA101B	100 6.3V	[M]
C519	ECBT1H473KB5	0.047 50V	[M]
C520	ECBT1H104KB5	0.1 50V	[M]GC GCS GK GT
C520	ECBT1H473KB5	0.047 50V	[M]GN
C521	ECBT1H102KB5	1000P 50V	[M]
C522	ECBT1H102KB5	1000P 50V	[M]
C523	ECBT1H104KB5	0.1 50V	[M]GC GCS GK GT
C524	ECBT1H473KB5	0.047 50V	[M]
C525	ECBT1H473KB5	0.047 50V	[M]
C526	ECBT1H473KB5	0.047 50V	[M] ⚠
C527	ECBT1H473KB5	0.047 50V	[M] ⚠
C528	ECBT1H473KB5	0.047 50V	[M]
C529	ECBT1H473KB5	0.047 50V	[M]
C530	ECBT1H103KB5	0.01 50V	[M]
C531	ECBT1H103KB5	0.01 50V	[M]
C532	ECBT1H180JC5	18P 50V	[M]
C533	ECBT1H180JC5	18P 50V	[M]
C534	ECBT1H102KB5	1000P 50V	[M]
C535	ECBT1H102KB5	1000P 50V	[M]
C540	ECBT1H473KB5	0.047 50V	[M]
C541	ECEA2AM010B	1 100V	[M]
C542	ECEA1HKA2R2B	2.2 50V	[M]
C546	ECBT1H471KB5	470P 50V	[M]
C547	ECBT1H471KB5	470P 50V	[M]
C549	ECEA1HKN4R7B	4.7 50V	[M]GC GCS GK GT
C551	ECQE1104KF3	0.1 100V	[M]
C552	ECQE1104KF3	0.1 100V	[M]
C553	ECQE1104KF3	0.1 100V	[M]
C554	RCEA1V472B-S	4700P 35V	[M] ⚠
C555	RCEA1V562B-S	5600P 35V	[M] ⚠
C556	RCEA1V562B-S	5600P 35V	[M] ⚠
C557	RCEA1V472B-S	4700P 35V	[M] ⚠
C558	RCEA1E222B-S	2200P 25V	[M] ⚠
C559	ECKR1H473ZF5	0.047 50V	[M]
C561	ECBT1H103KB5	0.01 50V	[M]
C562	ECEA1CM221B	220 16V	[M]
C563	ECBT1H102KB5	1000P 50V	[M]
C564	ECEA1AKA101B	100 10V	[M]
C565	ECBT1H103KB5	0.01 50V	[M]
C567	ECBT1H103KB5	0.01 50V	[M]
C568	ECEA1CKA470B	47 16V	[M]
C569	ECBT1H102KB5	1000P 50V	[M]
C570	ECBT1H103KB5	0.01 50V	[M]
C571	ECEA1CKA330B	33 16V	[M]
C572	ECEA1VM221B	220 35V	[M] ⚠
C577	ECEA1AM331B	330 10V	[M]
C578	ECBT1H102KB5	1000P 50V	[M]
C579	ECEA1JM101B	100 63V	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
C580	ECEA1HM101B	100 50V	[M] ⚠
C581	ECEA1EM331B	330 25V	[M] ⚠
C582	ECEA1EM331B	330 25V	[M] ⚠
C583	ECEA1HM101B	100 50V	[M] ⚠
C593	RCEA1C102B-S	1000P 16V	[M] ⚠
C594	RCEA1C102B-S	1000P 16V	[M]GC GCS GT
C595	ECEA1HM4R7B	4.7 50V	[M]GC GCS GT
C596	ECBT1H103KB5	0.01 50V	[M]
C597	ECEA1AKA470B	47 10V	[M]
C598	ECBT1H102KB5	1000P 50V	[M]GC GCS GT
C608	ECBT1H561KB5	560P 50V	[M]
C609	ECBT1H561KB5	560P 50V	[M]
C610	ECBT1H561KB5	560P 50V	[M]
C611	ECEA1CKA100B	10 16V	[M]
C612	ECBT1C103MS5	0.01 16V	[M]
C613	ECBT1H101KB5	100P 50V	[M]
C614	ECEA1HKA2R2B	2.2 50V	[M]
C615	ECBT1H150JC5	15P 50V	[M]
C616	ECBT1H180JC5	18P 50V	[M]
C617	ECBT1H680JC5	68P 50V	[M]
C618	ECBT1H560J5	56P 50V	[M]
C619	ECBT1H680JC5	68P 50V	[M]
C620	ECBT1H560J5	56P 50V	[M]
C621	ECBT1H102KB5	1000P 50V	[M]
C622	ECBT1H331KB5	330P 50V	[M]
C623	ECEA0JKS101B	100 6.3V	[M]
C624	ECBT1H104KB5	0.1 50V	[M]
C625	ECBT1H102KB5	1000P 50V	[M]
C626	ECEA0JM102B	1000 6.3V	[M]
C627	ECBT1H103KB5	0.01 50V	[M]
C629	ECEA1AKA220B	22 10V	[M]
C636	ECEA1HKA3R3B	3.3 50V	[M]
C638	ECBT1H103KB5	0.01 50V	[M]
C640	ECBT1H223KB5	0.022 50V	[M]
C641	ECBT1H223KB5	0.022 50V	[M]
C642	ECEA1VKA220B	22 35V	[M]
C643	ECEA1VKA220B	22 35V	[M]
C644	ECBT1H151KB5	150P 50V	[M]GCS GK GT
C645	ECBT1H102KB5	1000P 50V	[M]GCS GK GN GT
C656	ECBT1H473KB5	0.047 50V	[M]GC GCS GK GT
C657	ECEA1HKA3R3B	3.3 50V	[M]GC GCS GK GT
C658	ECBT0J153MS5	0.015 6.3V	[M]GC GCS GK GT
C659	ECEA1HKA4R7B	4.7 50V	[M]GC GCS GK GT
C660	ECBT1H102KB5	1000P 50V	[M]GC GCS GK GT
C661	ECBT1C103MS5	0.01 16V	[M]GC GCS GK GT
C662	ECEA1HKA010B	1 50V	[M]GC GCS GK GT
C663	ECBT1H101KB5	100P 50V	[M]GC GCS GK GT
C664	ECBT1H471KB5	470P 50V	[M]GC GCS GK GT
C665	ECEA1HKA010B	1 50V	[M]GC GCS GK GT
C666	ECBT1H103KB5	0.01 50V	[M]GC GCS GK GT
C667	ECBT1H102KB5	1000P 50V	[M]GC GCS GK GT
C668	ECEA1HKA010B	1 50V	[M]GC GCS GK GT
C669	ECEA1HKA010B	1 50V	[M]GC GCS GK GT
C670	ECEA1CKA100B	10 16V	[M]
C671	ECBT1H102KB5	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C672	ECBT1H101KB5	100P 50V	[M]
C673	ECBT1H103KB5	0.01 50V	[M]
C675	ECBT1H221KB5	220P 50V	[M]
C676	ECBT1H102KB5	1000P 50V	[M]
C691	ECBT1C272KR5	2700P 16V	[M]GC GCS GK GT
C692	ECBT1C272KR5	2700P 16V	[M]GC GCS GK GT
C701	ECEA1CKA100B	10 16V	[M]
C702	ECEA1CKA100B	10 16V	[M]
C703	ECUV1E223KBN	0.022 25V	[M]
C704	ECUV1H471KBM	470P 50V	[M]
C705	ECUV1H471KBM	470P 50V	[M]
C706	ECUV1H470JCN	47P 50V	[M]
C707	ECUV1H470JCN	47P 50V	[M]
C708	ECUV1E104KBN	0.1 25V	[M]GN
C708	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C709	ECUV1E104KBN	0.1 25V	[M]GN
C709	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C710	ECEA1CKA220B	22 16V	[M]
C711	ECEA1CKA220B	22 16V	[M]
C712	ECUV1H222KBN	2200P 50V	[M]
C713	ECUV1H222KBN	2200P 50V	[M]
C714	ECEA1CKA220B	22 16V	[M]
C715	ECEA1CKA220B	22 16V	[M]
C716	ECBT1C103NS5	0.01 16V	[M]
C717	ECBT1C103NS5	0.01 16V	[M]
C721	ECEA1CKA100B	10 16V	[M]
C722	ECEA1CKA100B	10 16V	[M]
C723	ECUV1H103KBN	0.01 50V	[M]
C725	ECUV1H471KBM	470P 50V	[M]
C726	ECUV1H471KBM	470P 50V	[M]
C727	ECUV1H470JCN	47P 50V	[M]
C728	ECUV1H470JCN	47P 50V	[M]
C729	ECEA1CKA220B	22 16V	[M]
C730	ECEA1CKA220B	22 16V	[M]
C731	ECUV1H222KBN	2200P 50V	[M]
C732	ECUV1H222KBN	2200P 50V	[M]
C733	ECEA1CKA220B	22 16V	[M]
C734	ECEA1CKA220B	22 16V	[M]
C735	ECEA0JKA101B	100 6.3V	[M]
C736	ECUV1E104KBN	0.1 25V	[M]GN
C736	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C737	ECUV1H103KBN	0.01 50V	[M]
C741	ECEA1CKA100B	10 16V	[M]
C742	ECEA1CKA100B	10 16V	[M]
C743	ECUV1H471KBM	470P 50V	[M]
C744	ECUV1H471KBM	470P 50V	[M]
C745	ECUV1H470JCN	47P 50V	[M]
C746	ECUV1H470JCN	47P 50V	[M]
C747	ECUV1H222KBN	2200P 50V	[M]
C748	ECUV1H222KBN	2200P 50V	[M]
C749	ECEA1CKA220B	22 16V	[M]
C750	ECEA1CKA220B	22 16V	[M]
C751	ECUV1H102KBN	1000P 50V	[M]
C755	ECEA1CKA220B	22 16V	[M]
C756	ECEA1CKA220B	22 16V	[M]
C757	ECUV1H222KBN	2200P 50V	[M]
C758	ECUV1H222KBN	2200P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C761	ECUV1H102KBN	1000P 50V	[M]
C762	ECEA1CKA100B	10 16V	[M]
C763	ECUV1H102KBN	1000P 50V	[M]
C764	ECUV1H103KBN	0.01 50V	[M]
C765	ECEA1AKA101B	100 10V	[M]
C766	ECUV1H102KBN	1000P 50V	[M]
C767	ECEA1CKA100B	10 16V	[M]
C768	ECUV1H103KBN	0.01 50V	[M]
C769	ECEA1CKA100B	10 16V	[M]
C770	ECUV1H102KBN	1000P 50V	[M]
C771	ECUV1E104KBN	0.1 25V	[M]GN
C771	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C772	RCE0JSA470BX	47P 6.3V	[M]
C773	ECA1CM471B	470 16V	[M]
C774	ECEA0JKA221B	220 6.3V	[M]
C775	ECEA1AKA101B	100 10V	[M]
C777	ECUV1H470JCN	47P 50V	[M]
C778	ECUV1H470JCN	47P 50V	[M]
C779	ECUV1H103KBN	0.01 50V	[M]
C780	ECA1CM471B	470 16V	[M]
C781	ECEA1HKA3R3B	3.3 50V	[M]
C782	ECEA1EM332B	3300 25V	[M] ⚠
C783	ECEA1EM222E	2200 25V	[M]
C784	ECUV1E104KBN	0.1 25V	[M]GN
C784	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C785	ECUV1H103KBN	0.01 50V	[M]
C786	ECEA0JKA101B	100 6.3V	[M]
C787	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C788	ECEA0JKA101B	100 6.3V	[M]
C790	ECUV1E104KBN	0.1 25V	[M]GN
C790	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C801	ECEA0JKA101B	100 6.3V	[M]
C803	ECUV1H222KBN	2200P 50V	[M]
C804	ECUV1H222KBN	2200P 50V	[M]
C805	ECEA1HKAR47B	0.47 50V	[M]
C806	ECEA1HKAR47B	0.47 50V	[M]
C807	ECEA1HKA4R7B	4.7 50V	[M]
C808	ECEA1HKA4R7B	4.7 50V	[M]
C809	ECEA1HKA4R7B	4.7 50V	[M]
C810	ECUV1E104KBN	0.1 25V	[M]GN
C810	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C811	ECUV1H222KBN	2200P 50V	[M]
C812	ECEA0JKA470B	47 6.3V	[M]
C813	ECEA0JKA470B	47 6.3V	[M]
C814	ECUV1H471KBM	470P 50V	[M]
C818	ECA0JM471B	470 6.3V	[M]
C819	ECEA0JKA101B	100 6.3V	[M]
C820	ECEA0JKA221B	220 6.3V	[M]
C821	ECUV1H050DCN	5P 50V	[M]
C822	ECUV1H120JCN	12P 50V	[M]
C823	ECUV1E223KBN	0.022 25V	[M]
C824	ECUV1E223KBN	0.022 25V	[M]
C825	ECUV1H222KBN	2200P 50V	[M]
C826	ECUV1H222KBN	2200P 50V	[M]
C827	ECEA1HKA010B	1 50V	[M]
C828	ECEA1HKA010B	1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C829	ECEA0JKA470B	47 6.3V	[M]
C830	ECEA0JKA470B	47 6.3V	[M]
C831	ECUV1E223KBN	0.022 25V	[M]
C832	ECUV1E223KBN	0.022 25V	[M]
C833	ECUV1H222KBN	2200P 50V	[M]
C834	ECUV1H222KBN	2200P 50V	[M]
C835	ECEA1HKA010B	1 50V	[M]
C836	ECEA1HKA010B	1 50V	[M]
C837	ECUV1H103KBN	0.01 50V	[M]
C838	ECUV1H103KBN	0.01 50V	[M]
C839	ECUV1H103KBN	0.01 50V	[M]
C840	ECUV1H103KBN	0.01 50V	[M]
C841	ECUV1E223KBN	0.022 25V	[M]
C842	ECUV1H222KBN	2200P 50V	[M]
C843	ECEA1HKA010B	1 50V	[M]
C844	ECEA0JKA470B	47 6.3V	[M]
C845	ECEA0JKA470B	47 6.3V	[M]
C845	ECEA0JKA470B	47 6.3V	[M]
C846	ECEA0JKA470B	47 6.3V	[M]
C848	ECEA0JKA470B	47 6.3V	[M]
C849	ECUV1H103KBN	0.01 50V	[M]
C850	ECEA0JKA101B	100 6.3V	[M]
C851	ECUV1H103KBN	0.01 50V	[M]
C852	ECUV1H561KBN	560P 50V	[M]
C853	EEAFC0J101B	100P 16V	[M]
C854	ECEA0JKA470B	47 6.3V	[M]
C855	ECUV1E104KBN	0.1 25V	[M]GN
C855	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C856	ECUV1E104KBN	0.1 25V	[M]GN
C856	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C857	ECUV1E223KBN	0.022 25V	[M]
C864	ECUV1E104KBN	0.1 25V	[M]GN
C864	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C865	ECUV1E104KBN	0.1 25V	[M]GN
C865	ECUZNE104KBN	0.1 25V	[M]GC GCS GK GT
C866	ECUV1H103KBN	0.01 50V	[M]
C867	ECUV1H330JCN	33P 50V	[M]
C868	ECUV1H330JCN	33P 50V	[M]
C869	ECUV1H102KBN	1000P 50V	[M]
C870	ECUV1H102KBN	1000P 50V	[M]
C871	ECUV1H222KBN	2200P 50V	[M]
C872	ECUV1H222KBN	2200P 50V	[M]
C873	ECEA1CKA100B	10 16V	[M]
C874	ECEA1CKA100B	10 16V	[M]
C875	ECUV1H101KCN	100P 50V	[M]
C876	ECUV1H101KCN	100P 50V	[M]
C877	ECUV1H103KBN	0.01 50V	[M]
C878	ECEA1CKA100B	10 16V	[M]
C878	ECUV1H103KBN	0.01 50V	[M]
C879	ECEA1HKAR47B	0.47 50V	[M]
C879	ECFR1C104KR	0.1 16V	[M]
C880	ECEA1HKAR47B	0.47 50V	[M]
C880	ECFR1C393KR	0.039 16V	[M]
C881	ECQV1H154JZ3	0.15 50V	[M]
C881	ECUV1H103KBN	0.01 50V	[M]
C882	ECEA1HKA010B	1 50V	[M]
C883	ECEA1HKA010B	1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C884	ECFR1C473KR	0.047 16V	[M]
C885	ECBT1C562KR5	5600P 16V	[M]
C886	ECFR1C473KR	0.047 16V	[M]
C887	ECFR1C473KR	0.047 16V	[M]
C888	ECFR1C104KR	0.1 16V	[M]
C889	ECFR1C104KR	0.1 16V	[M]
C892	ECUV1E104KBN	0.1 25V	[M]
C899	ECUV1E223KBN	0.022 25V	[M]
C1301	ECUV1H104ZFN	0.1 50V	[M]
C1302	ECEA1CKA100I	10 16V	[M]
C1303	ECUV1H101JCN	100P 50V	[M]
C1304	ECUV1H101JCN	100P 50V	[M]
C1305	ECUV1H104ZFN	0.1 50V	[M]
C1306	ECEA1CKA100I	10 16V	[M]
C1307	ECUV1H104ZFN	0.1 50V	[M]
C1308	ECEA0JKA331I	330 6.3V	[M]
C1309	ECUV1H104ZFN	0.1 50V	[M]
C1310	ECEA1CKA100I	10 16V	[M]
C1311	ECUV1H101JCN	100P 50V	[M]
C1312	ECUV1H101JCN	100P 50V	[M]
C1313	ECUV1H104ZFN	0.1 50V	[M]
C1314	ECEA1CKA100I	10 16V	[M]
C1315	ECUV1H104ZFN	0.1 50V	[M]
C1316	ECEA0JKA331I	330 6.3V	[M]
C1317	ECUV1H104ZFN	0.1 50V	[M]
C1318	ECEA1CKA100I	10 16V	[M]
C1319	ECUV1H101JCN	100P 50V	[M]
C1320	ECUV1H101JCN	100P 50V	[M]
C1321	ECUV1H104ZFN	0.1 50V	[M]
C1322	ECUV1H104ZFN	0.1 50V	[M]
C1323	ECEA0JKA331I	330 6.3V	[M]
C1324	ECUV1H104ZFN	0.1 50V	[M]
C1325	ECEA1CKA100I	10 16V	[M]
C1326	ECUV1H104ZFN	0.1 50V	[M]
C1327	ECUV1H104ZFN	0.1 50V	[M]
C1328	ECUV1H103KBN	0.01 50V	[M]
C1329	ECUV1H103KBN	0.01 50V	[M]
C1330	ECUV1H103KBN	0.01 50V	[M]
C1332	ECUV1H104ZFN	0.1 50V	[M]
C1333	ECUV1H103KBN	0.01 50V	[M]
C1334	ECUV1H103KBN	0.01 50V	[M]
C1335	ECEA0JKA101I	100 6.3V	[M]
C1336	ECUV1H103KBN	0.01 50V	[M]
C1337	ECUV1H103KBN	0.01 50V	[M]
C1338	ECEA0JKA101I	100 6.3V	[M]
C1339	ECEA0JKA470I	47 6.3V	[M]
C1341	ECEA1CKA100I	10 16V	[M]
C1342	ECEA0JKA331I	330 6.3V	[M]
C1343	ECEA1CKA100I	10 16V	[M]
C1344	ECEA0JKA331I	330 6.3V	[M]
C1345	ECUV1H103KBN	0.01 50V	[M]
C1346	ECEA0JKA221I	220 6.3V	[M]
C1347	ECUV1H103KBN	0.01 50V	[M]
C1348	ECUV1H103KBN	0.01 50V	[M]
C1349	ECEA0JKA331I	330 6.3V	[M]
C1350	ECEA0JKA331I	330 6.3V	[M]
C1351	ECUV1H102KBN	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2001	ECUV1A335KBM	3.3U 10V	[SPC]
C2002	ECUV1C393KBV	3.3U 10V	[SPC]
C2003	ECUV1C393KBV	3.3U 10V	[SPC]
C2004	ECUV1C393KBV	3.3U 10V	[SPC]
C2005	ECUV1C393KBV	3.3U 10V	[SPC]
C2006	EEVHB0J101P	100U 6.3V	[SPC]
C2007	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2008	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2009	ECUV1H470JCV	47P 50V	[SPC]
C2010	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2012	ECUV1H331JCV	330P 50V	[SPC]
C2015	ECUV1H330JCV	33P 50V	[SPC]
C2016	ECUZ1C104KBV	0.1U 16V	[SPC]
C2019	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2020	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2021	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2022	ECUV1A335KBM	3.3U 10V	[SPC]
C2023	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2024	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2025	ECUZ1H102KBV	1000P 50V	[SPC]
C2026	ECUZ1H102KBV	1000P 50V	[SPC]
C2027	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2028	ECUZ1H102KBV	1000P 50V	[SPC]
C2029	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2030	ECUZ1H102KBV	1000P 50V	[SPC]
C2031	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2032	ECUV1H821JCV	820P 50V	[SPC]
C2033	ECUV1H821JCV	820P 50V	[SPC]
C2034	ECUV1H271JCV	270P 50V	[SPC]
C2036	ECUV1H471JCV	470P 50V	[SPC]
C2037	ECUV1H331JCV	330P 50V	[SPC]
C2038	ECUV1H821JCV	820P 50V	[SPC]
C2040	ECUV1H392KBV	3900P 50V	[SPC]
C2041	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2042	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2043	ECUV1C823KBV	0.082U 16V	[SPC]
C2044	ECUV1C823KBV	0.082U 16V	[SPC]
C2045	ECUZ1C104KBV	0.1U 16V	[SPC]
C2501	EEVHB0J101P	100U 6.3V	[SPC]
C2502	ECEV0JA331P	330U 6.3V	[SPC]
C2503	ECUZ1H103KBV	0.01U 50V	[SPC]
C2504	ECUZ1H103KBV	0.01U 50V	[SPC]
C2505	ECUZ1H103KBV	0.01U 50V	[SPC]
C2506	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2507	ECUZ1C104KBV	0.1U 16V	[SPC]
C2508	ECUZ1C104KBV	0.1U 16V	[SPC]
C2509	ECUZ1C104ZFV	0.1U 16V	[SPC]
C2510	ECUZ1C104KBV	0.1U 16V	[SPC]
C2511	ECUZ1C104KBV	0.1U 16V	[SPC]
C2512	ECUZ1C104KBV	0.1U 16V	[SPC]
C3001	ECEV0JA331P	330U 6.3V	[SPC]
C3002	ECEV0JA331P	330U 6.3V	[SPC]
C3003	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3004	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3005	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3006	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3007	ECUZ1C104ZFV	0.1U 16V	[SPC]

Ref. No.	Part No.	Part Name & Description	Remarks
C3008	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3009	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3010	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3011	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3012	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3013	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3014	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3015	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3016	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3017	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3018	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3019	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3020	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3021	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3022	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3023	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3024	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3025	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3026	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3031	ECEV0JA331P	330U 6.3V	[SPC]
C3032	ECUZ1A105KBN	1U 10V	[SPC]
C3033	ECUZ1A105KBN	1U 10V	[SPC]
C3034	ECUZ1A105KBN	1U 10V	[SPC]
C3035	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3036	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3037	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3038	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3039	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3040	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3041	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3042	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3043	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3044	ECUV1H220JCV	22P 50V	[SPC]
C3045	ECUV1H220JCV	22P 50V	[SPC]
C3046	ECUV1H220JCV	22P 50V	[SPC]
C3047	ECUV1H220JCV	22P 50V	[SPC]
C3048	ECUV1H220JCV	22P 50V	[SPC]
C3051	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3052	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3053	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3054	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3055	ECST1AY106ZR	10U 10V	[SPC]
C3056	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3063	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3064	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3065	ECST1AY106ZR	10U 10V	[SPC]
C3066	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3071	ECST1AY106ZR	10U 10V	[SPC]
C3072	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3073	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3201	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3211	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3271	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3272	ECUZ1C104ZFV	0.1U 16V	[SPC]
C3286	EEVHB0J101P	100U 6.3V	[SPC]
C4241	ECUZ1C104ZFV	0.1U 16V	[SPC]
C4242	ECUV1H390JCV	39P 50V	[SPC]

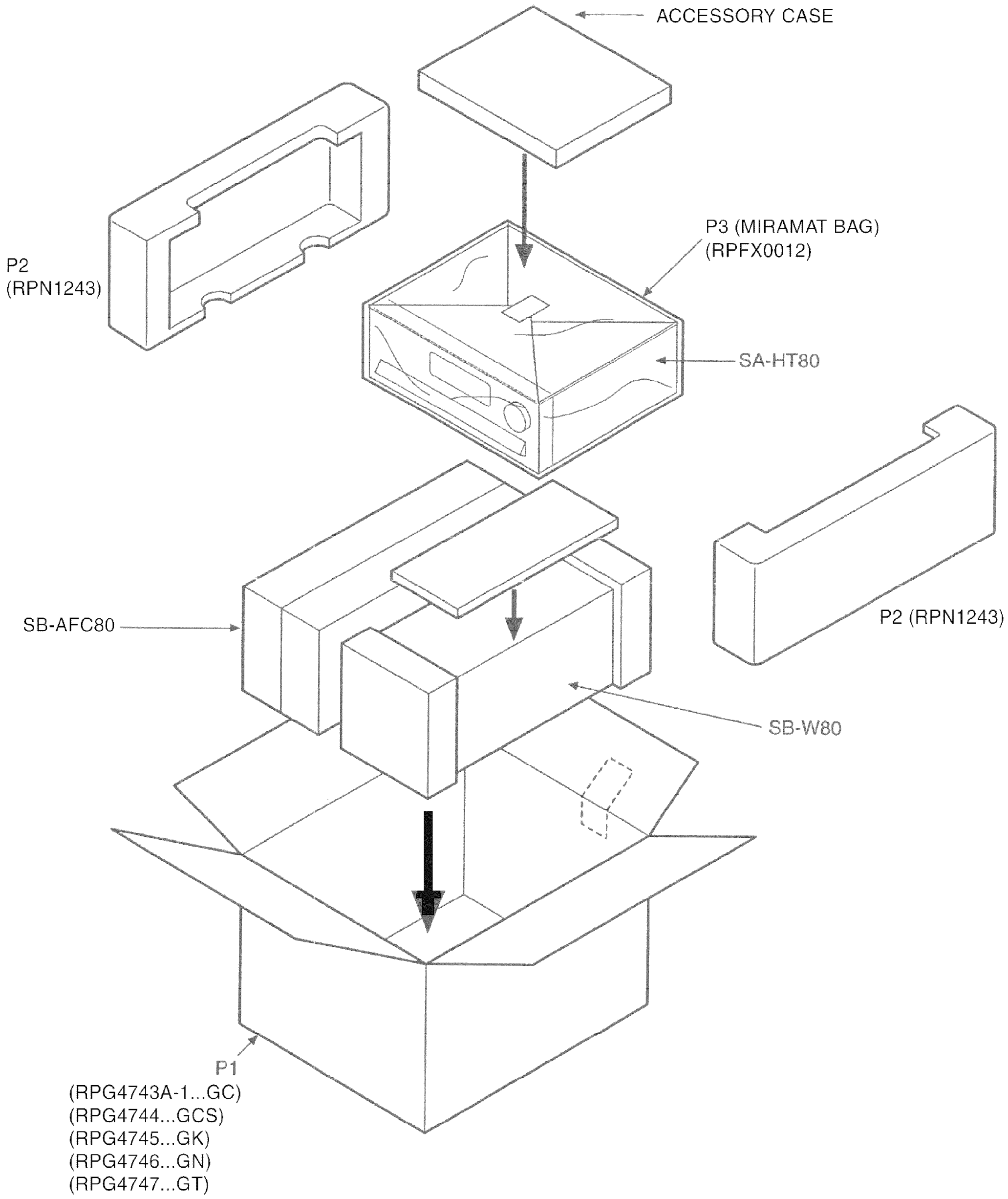
Ref. No.	Part No.	Part Name & Description	Remarks
C5201	EEVHB0J470R	47P 6.3V	[SPC]
C5202	ECST1AY106ZR	10U 10V	[SPC]
C5203	ECUZ1C104KBV	0.1U 16V	[SPC]
C5204	ECUZ1C104KBV	0.1U 16V	[SPC]
C5205	ECUZ1C104KBV	0.1U 16V	[SPC]
C5206	ECUZ1C104KBV	0.1U 16V	[SPC]
C5207	EEVHB1C100R	10U 16V	[SPC]
C5208	ECST1CX106ZR	10U 16V	[SPC]
C5209	ECUV1H101JCV	100P 50V	[SPC]
C5210	ECUZ1C104KBV	0.1U 16V	[SPC]
C5211	ECUV1H560JCV	56P 50V	[SPC]
C5212	ECUV1H101JCV	100P 50V	[SPC]
C5213	ECUZ1C104KBV	0.1U 16V	[SPC]
C5214	ECUV1A184KBV	0.18U 10V	[SPC]
C5215	ECUZ1C104KBV	0.1U 16V	[SPC]
C5216	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5217	ECUV1A224KBV	0.22U 10V	[SPC]
C5218	ECUZ1C104KBV	0.1U 16V	[SPC]
C5219	ECUZ1C104KBV	0.1U 16V	[SPC]
C5220	ECUV1H222KBV	2200P 50V	[SPC]
C5221	ECUV1H392KBV	3900P 50V	[SPC]
C5222	ECUZ1C104KBV	0.1U 16V	[SPC]
C5223	ECUV1H820JCV	82P 50V	[SPC]
C5224	ECUZ1C104KBV	0.1U 16V	[SPC]
C5225	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5226	ECUZ1C104KBV	0.1U 16V	[SPC]
C5227	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5228	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5229	ECUV1H221JCV	220P 50V	[SPC]
C5230	ECUZ1C104KBV	0.1U 16V	[SPC]
C5231	ECUV1A335KBM	3.3U 10V	[SPC]
C5232	EEVHB0J330R	33U 6.3V	[SPC]
C5233	ECUV1A334KBV	0.33U 10V	[SPC]
C5234	EEVHB0J330R	33U 6.3V	[SPC]
C5235	ECUV1A335KBM	3.3U 10V	[SPC]
C5236	ECUZ1C104KBV	0.1U 16V	[SPC]
C5237	ECUZ1H102KBV	1000P 50V	[SPC]
C5238	ECUV1A224KBV	0.22U 10V	[SPC]
C5239	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5240	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5241	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5242	ECUV1H121JCV	120P 50V	[SPC]
C5243	ECUV1H221JCV	120P 50V	[SPC]
C5244	ECUV1H221JCV	120P 50V	[SPC]
C5245	ECUZ1C104KBV	0.1U 16V	[SPC]
C5246	ECUZ1C104KBV	0.1U 16V	[SPC]
C5247	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5248	ECUZ1C104ZFV	0.1U 16V	[SPC]
C5249	ECUV1H681JCV	680P 50V	[SPC]
C6201	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6202	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6203	EEVHB0J330R	33U 6.3V	[SPC]
C6204	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6205	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6206	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6207	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6251	ECUZ1C104ZFV	0.1U 16V	[SPC]

Ref. No.	Part No.	Part Name & Description	Remarks
C6252	EEVHB0J330R	33U 6.3V	[SPC]
C6253	EEVHB0J101P	100U 6.3V	[SPC]
C6254	ECEV0JA331P	330U 6.3V	[SPC]
C6255	ECUZ1H103KBV	0.01U 50V	[SPC]
C6301	ECUV1H101JCV	100P 50V	[SPC]
C6302	ECUZ1C104KBV	0.1U 16V	[SPC]
C6303	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6304	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6501	EEVHB0J330R	33U 6.3V	[SPC]
C6502	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6503	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6504	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6505	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6506	ECST1AY106ZR	10U 10V	[SPC]
C6507	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6511	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6512	ECST1AY106ZR	10U 10V	[SPC]
C6513	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6514	EEVHB0J330R	33U 6.3V	[SPC]
C6521	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6522	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6541	ECUV1H120JCV	12P 50V	[SPC]
C6542	ECUV1H120JCV	12P 50V	[SPC]
C6544	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6564	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6565	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6584	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6585	ECUZ1C104ZFV	0.1U 16V	[SPC]
C6601	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7001	EEVHB0J101P	100U 6.3V	[SPC]
C7002	EEVHB0J101P	100U 6.3V	[SPC]
C7003	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7004	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7005	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7006	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7007	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7008	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7009	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7010	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7011	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7012	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7013	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7014	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7015	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7016	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7017	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7018	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7019	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7020	ECUV1H103ZFV	0.01U 50V	[SPC]
C7301	ECUZ1C104ZFV	0.1U 16V	[SPC]
C7302	ECUZ1C104ZFV	0.1U 16V	[SPC]

21.4. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG4743A-1	PACKING CASE	[M]GC
P1	RPG4744	PACKING CASE	[M]GCS
P1	RPG4745	PACKING CASE	[M]GK
P1	RPG4746	PACKING CASE	[M]GN
P1	RPG4747	PACKING CASE	[M]GT
P2	RPN1243	POLYFOAM	[M]
P3	RPFX0012	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	EUR51966	REMOTE CONTROL	[M]GN
A1	EUR51967	REMOTE CONTROL	[M]GC GCS GK GT
A1-1	UR51EC780B	R/C BATTERY COVER	[M]
A2	RJA0004	AC CORD (SF)	[M]GT ⚠
A2	RJA0019-2K	AC CORD (SF)	[M]GC GCS ⚠
A2	RJA0035-X	AC CORD (SF)	[M]GN ⚠
A2	RJA0055-1J	AC CORD	[M]GK ⚠
A3	RQT5283-B	O/I BOOK	[M]GN
A3	RQT5285-G	O/I BOOK	[M]GK GC GCS
A3	RQT5286-1K	O/I BOOK	[M]GT
A4	RJL1P016B15A	VIDEO CABLE	[M]
A5	RSA0006-J	FM ANT	[M]
A6	RSA0012	AM LOOP ANTENNA	[M]
A7	SJP5213-2	AC CORD ADAPTOR	[M]GC GCS GK GT

21.5. Packaging


ACCESSORY CASE
P2
(RPN1243)
P3 (MIRAMAT BAG)
(RPFX0012)
SA-HT80
P2 (RPN1243)
SB-AFC80
SB-W80
P1
(RPG4743A-1...GC)
(RPG4744...GCS)
(RPG4745...GK)
(RPG4746...GN)
(RPG4747...GT)

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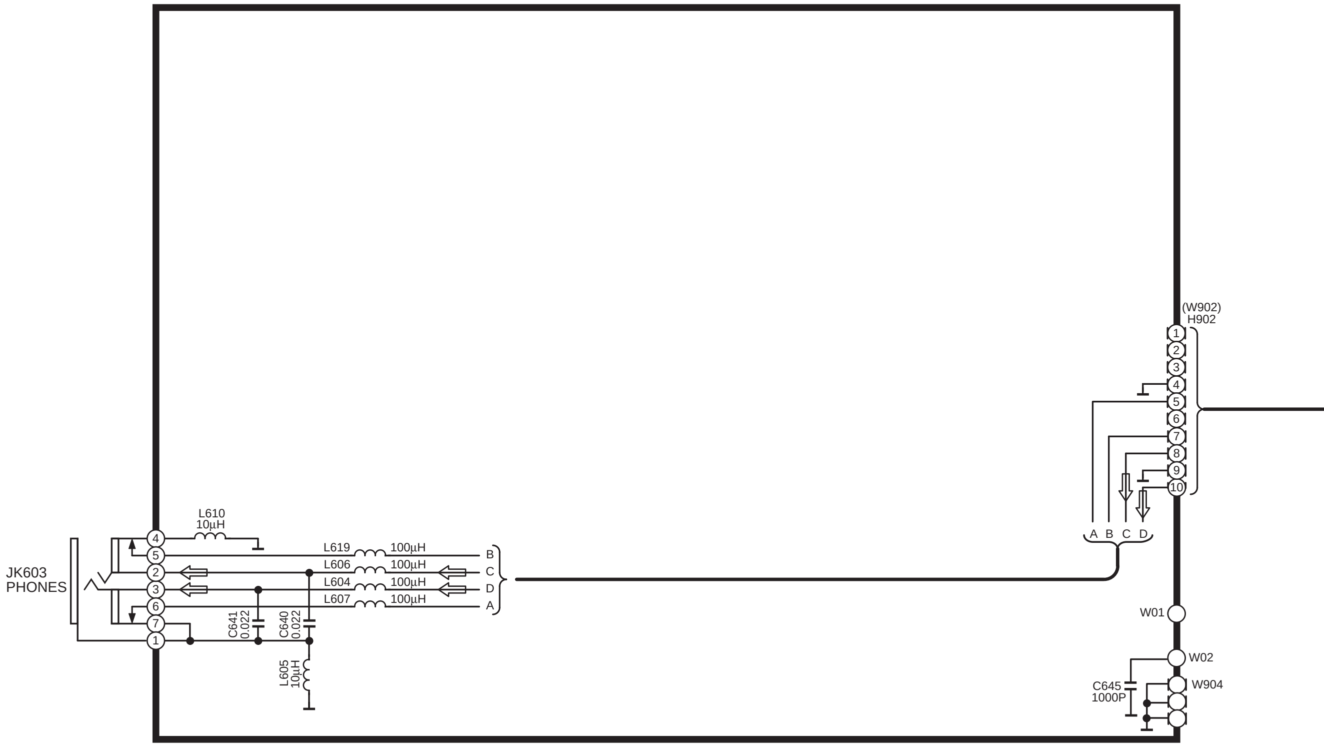
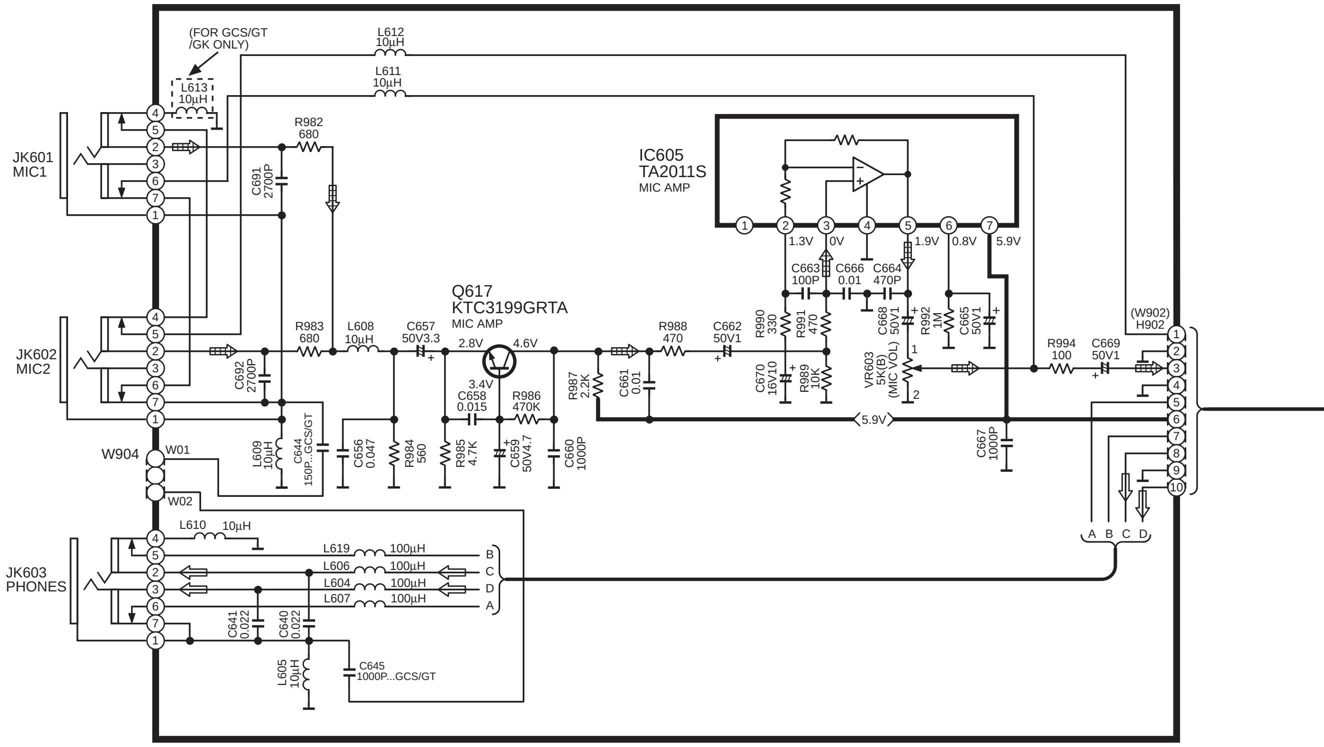
L MIC CIRCUIT
(FOR GN ONLY)

: +B signal line : Audio signal line


L610
10µH
JK603
PHONES
4
5
2
3
6
7
1
L619 100µH
L606 100µH
L604 100µH
L607 100µH
B
C
D
A
C641
0.022
C640
0.022
L605
10µH
(W902)
H902
1
2
3
4
5
6
7
8
9
10
A B C D
W01
W02
W904
C645
1000P

L MIC CIRCUIT
(FOR GC/GCS/GK/GT ONLY)

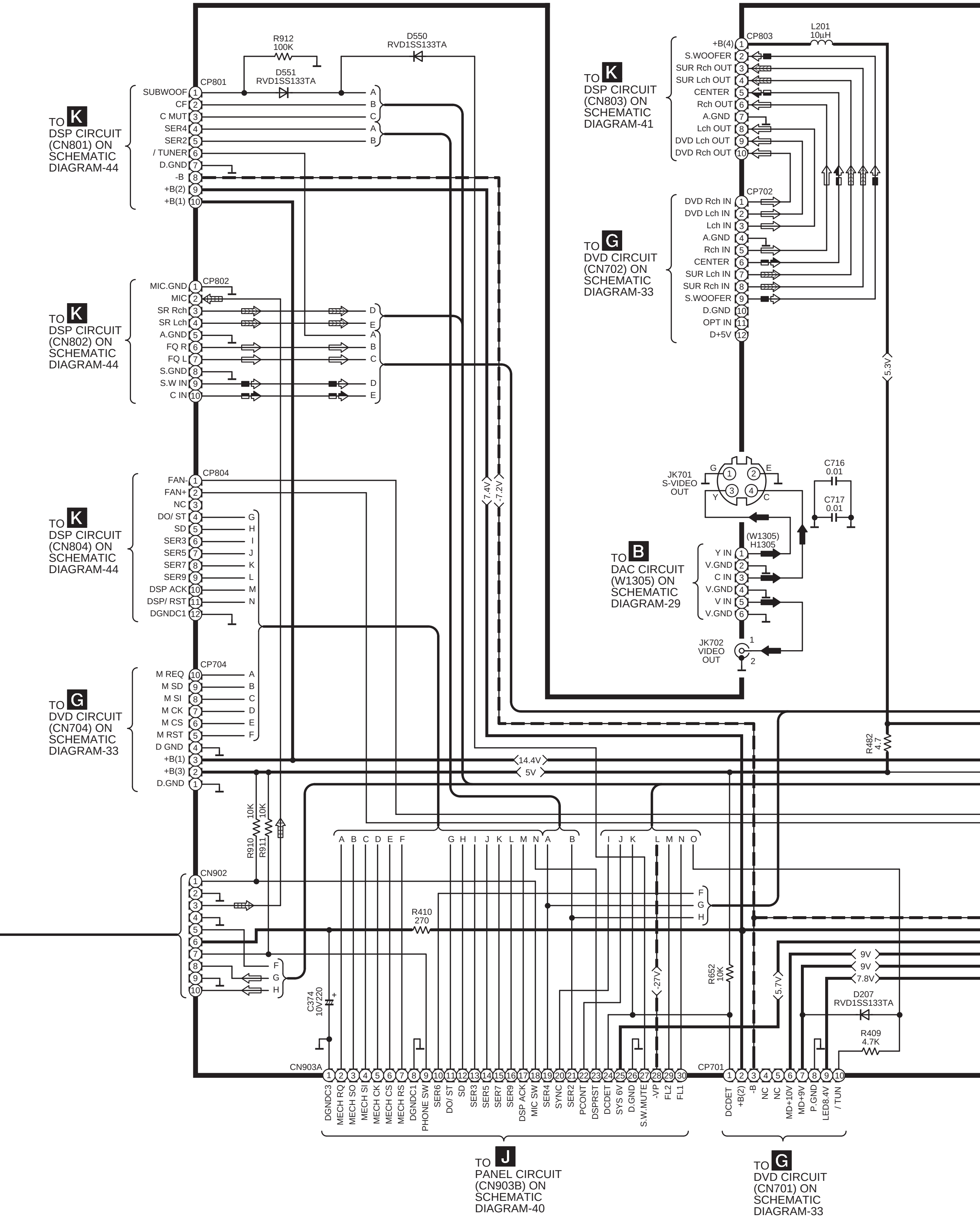
:+B signal line :Audio signal line :Mic signal line


(FOR GCS/GT
/GK ONLY)
L613
10µH
L612
10µH
L611
10µH
JK601
MIC1
R982
680
C691
2700P
IC605
TA2011S
MIC AMP
1
2
3
4
5
6
7
1.3V
0V
1.9V
0.8V
5.9V
C663
100P
C666
0.01
C664
470P
R990
330
R991
470
C668
50V1
R992
1M
C665
50V1
C670
16V10
R989
10K
VR603
5K(B)
(MIC VOL)
JK602
MIC2
R983
680
L608
10µH
C657
50V3.3
Q617
KTC3199GRTA
MIC AMP
2.8V
4.6V
3.4V
C658
0.015
R986
470K
R988
470
C662
50V1
R987
2.2K
C661
0.01
5.9V
C667
1000P
R994
100
C669
50V1
(W902)
H902
C692
2700P
L609
10µH
C644
150P...GCS/GT
C656
0.047
R984
560
R985
4.7K
C659
50V4.7
C660
1000P
W904
W01
W02
L610 10µH
JK603
PHONES
L619 100µH
L606 100µH
L604 100µH
L607 100µH
B
C
D
A
C641
0.022
C640
0.022
L605
10µH
C645
1000P...GCS/GT
A B C D

SCHEMATIC DIAGRAM - 46

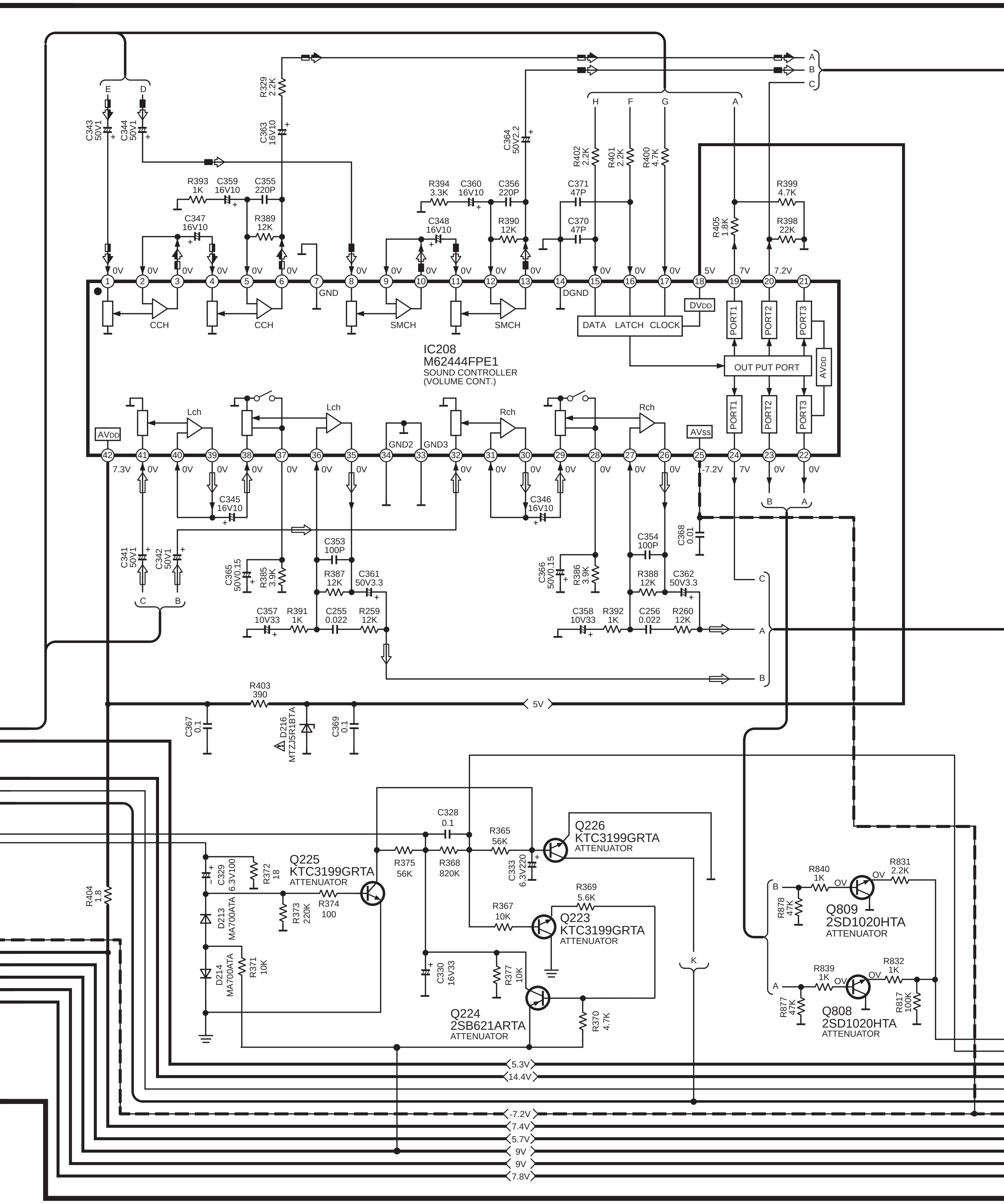
M POWER CIRCUIT
(FOR GC/GCS/GT ONLY)

: +B signal line
: -B signal line
: Video signal line
: Audio signal line
: Surround speaker signal line
: Mic signal line
: Center speaker signal line
: Subwoofer speaker signal line



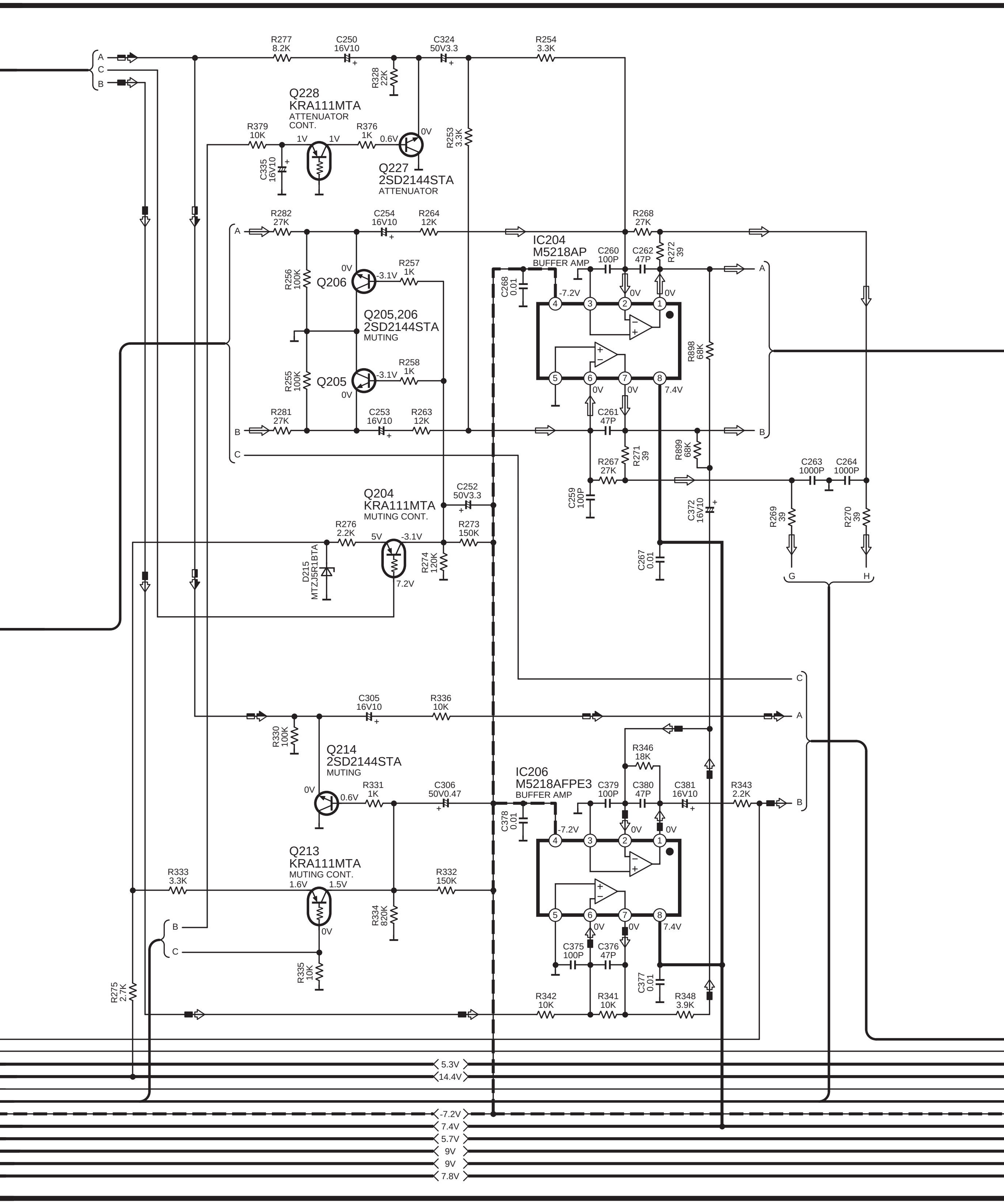
TO K DSP CIRCUIT (CN801) ON SCHEMATIC DIAGRAM-44
CP801
SUBWOOF 1
CF 2
C MUT 3
SER4 4
SER2 5
/ TUNER 6
D.GND 7
-B 8
+B(2) 9
+B(1) 10
R912 100K
D550 RVD1SS133TA
D551 RVD1SS133TA
TO K DSP CIRCUIT (CN802) ON SCHEMATIC DIAGRAM-44
CP802
MIC.GND 1
MIC 2
SR Rch 3
SR Lch 4
A.GND 5
FQ R 6
FQ L 7
S.GND 8
S.W IN 9
C IN 10
TO K DSP CIRCUIT (CN804) ON SCHEMATIC DIAGRAM-44
CP804
FAN- 1
FAN+ 2
NC 3
DO/ ST 4
SD 5
SER3 6
SER5 7
SER7 8
SER9 9
DSP ACK 10
DSP/ RST 11
DGNDC1 12
TO G DVD CIRCUIT (CN704) ON SCHEMATIC DIAGRAM-33
CP704
M REQ 10
M SD 9
M SI 8
M CK 7
M CS 6
M RST 5
D GND 4
+B(1) 3
+B(3) 2
D.GND 1
7.4V
-7.2V
14.4V
5V
R910 10K
R911 10K
CN902
R410 270
C374 10V220
-27V
R652 10K
5.7V
9V
9V
7.8V
D207 RVD1SS133TA
R409 4.7K
CN903A
DGNDC3 1
MECH RQ 2
MECH SO 3
MECH SI 4
MECH CK 5
MECH CS 6
MECH RS 7
DGNDC1 8
PHONE SW 9
SER6 10
DO/ ST 11
SD 12
SER3 13
SER5 14
SER7 15
SER9 16
DSP ACK 17
MIC SW 18
SER4 19
SYNC 20
SER2 21
PCONT 22
DSPRST 23
DCDET 24
SYS 6V 25
D.GND 26
S.W.MUTE 27
-VP 28
FL2 29
FL1 30
TO J PANEL CIRCUIT (CN903B) ON SCHEMATIC DIAGRAM-40
CP701
DCDET 1
+B(2) 2
-B 3
NC 4
NC 5
MD+10V 6
MD+9V 7
P.GND 8
LED8.4V 9
/ TUN 10
TO G DVD CIRCUIT (CN701) ON SCHEMATIC DIAGRAM-33
TO K DSP CIRCUIT (CN803) ON SCHEMATIC DIAGRAM-41
CP803
L201 10µH
+B(4) 1
S.WOOFER 2
SUR Rch OUT 3
SUR Lch OUT 4
CENTER 5
Rch OUT 6
A.GND 7
Lch OUT 8
DVD Lch OUT 9
DVD Rch OUT 10
TO G DVD CIRCUIT (CN702) ON SCHEMATIC DIAGRAM-33
CP702
DVD Rch IN 1
DVD Lch IN 2
Lch IN 3
A.GND 4
Rch IN 5
CENTER 6
SUR Lch IN 7
SUR Rch IN 8
S.WOOFER 9
D.GND 10
OPT IN 11
D+5V 12
5.3V
JK701 S-VIDEO OUT
G E Y C
C716 0.01
C717 0.01
TO B DAC CIRCUIT (W1305) ON SCHEMATIC DIAGRAM-29
(W1305) H1305
Y IN 1
V.GND 2
C IN 3
V.GND 4
V IN 5
V.GND 6
JK702 VIDEO OUT
R482 4.7

: +B signal line
: -B signal line
: Center speaker signal line
: Subwoofer speaker signal line
: Audio signal line


E
D
C343
50V1
C344
50V1
R329
2.2K
C363
16V10
C364
50V2.2
H
F
G
A
B
C
R402
2.2K
R401
2.2K
R400
4.7K
R393
1K
C359
16V10
C355
220P
C347
16V10
R389
12K
R394
3.3K
C360
16V10
C356
220P
C348
16V10
R390
12K
C371
47P
C370
47P
R399
4.7K
R405
1.8K
R398
22K
0V
5V
7V
7.2V
GND
DGND
CCH
SMCH
DATA
LATCH
CLOCK
DVDD
PORT1
PORT2
PORT3
OUT PUT PORT
AVDD
IC208
M62444FPE1
SOUND CONTROLLER
(VOLUME CONT.)
Lch
Rch
GND2
GND3
AVss
7.3V
-7.2V
C345
16V10
C346
16V10
C341
50V1
C342
50V1
C365
50V0.15
R385
3.9K
C353
100P
R387
12K
C361
50V3.3
C357
10V33
R391
1K
C255
0.022
R259
12K
C366
50V0.15
R386
3.9K
C354
100P
R388
12K
C362
50V3.3
C358
10V33
R392
1K
C256
0.022
R260
12K
C368
0.01
R403
390
5V
C367
0.1
D216
MTZJ5R1BTA
C369
0.1
C328
0.1
R365
56K
Q226
KTC3199GRTA
ATTENUATOR
C333
6.3V220
R375
56K
R368
820K
Q225
KTC3199GRTA
ATTENUATOR
C329
6.3V100
R372
18
R373
220K
R374
100
D213
MA700ATA
R369
5.6K
R367
10K
Q223
KTC3199GRTA
ATTENUATOR
R404
1.8
D214
MA700ATA
R371
10K
C330
16V33
R377
10K
Q224
2SB621ARTA
ATTENUATOR
R370
4.7K
K
R840
1K
R831
2.2K
Q809
2SD1020HTA
ATTENUATOR
R878
47K
R839
1K
R832
1K
Q808
2SD1020HTA
ATTENUATOR
R877
47K
R817
100K
OV
5.3V
14.4V
-7.2V
7.4V
5.7V
9V
9V
7.8V

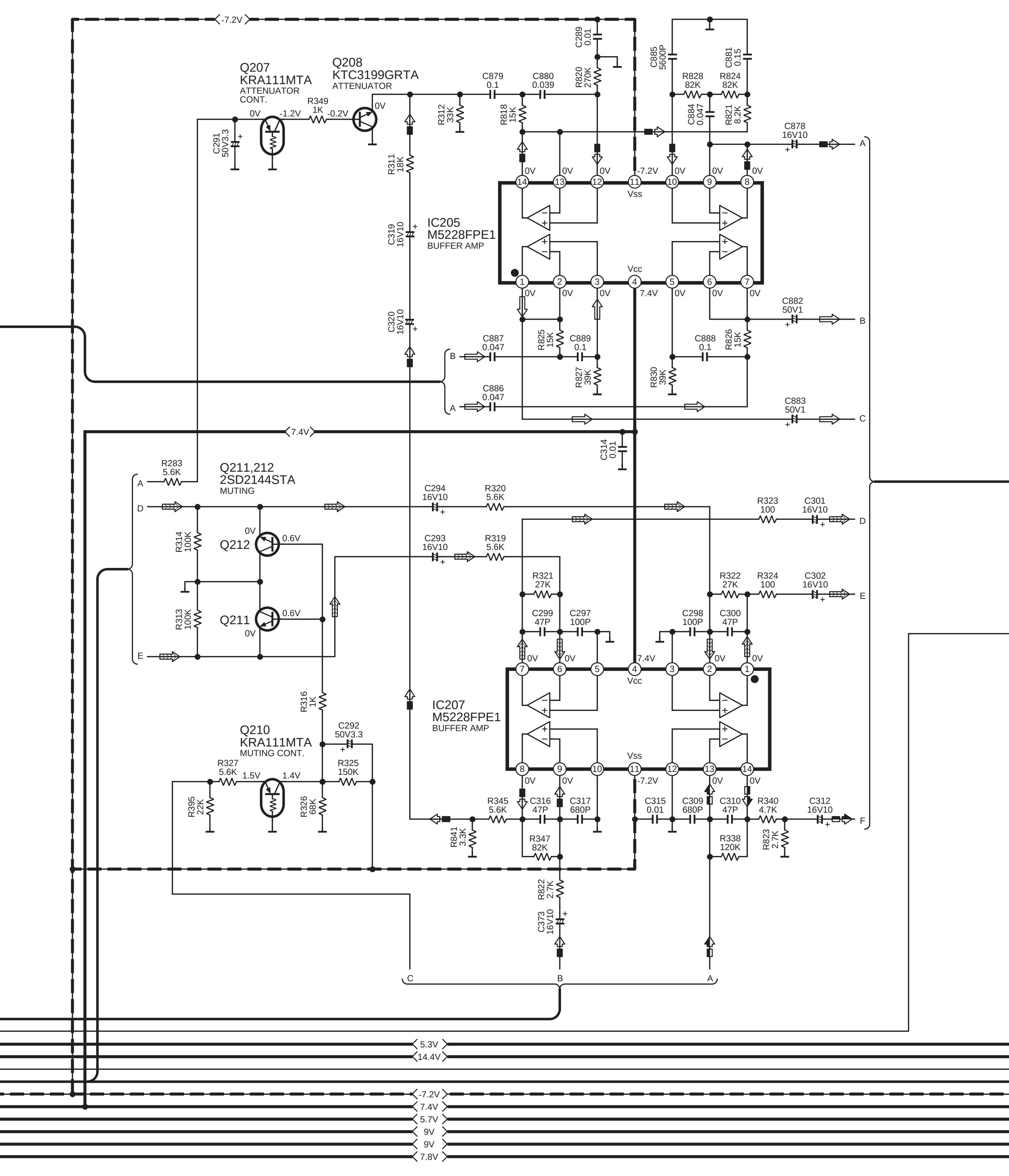
SCHEMATIC DIAGRAM - 48

▬ : +B signal line
▬ ▬ : -B signal line
⇨ : Center speaker signal line
⇨ : Subwoofer speaker signal line
⇨ : Audio signal line


A
C
B
R277
8.2K
C250
16V10
C324
50V3.3
R254
3.3K
R328
22K
Q228
KRA111MTA
ATTENUATOR
CONT.
R379
10K
1V
1V
R376
1K
0.6V
0V
R253
3.3K
C335
16V10
Q227
2SD2144STA
ATTENUATOR
R282
27K
C254
16V10
R264
12K
R268
27K
A
IC204
M5218AP
BUFFER AMP
C260
100P
C262
47P
R272
39
0V
-3.1V
R257
1K
R256
100K
Q206
C268
0.01
-7.2V
0V
0V
Q205,206
2SD2144STA
MUTING
R898
68K
R258
1K
R255
100K
Q205
-3.1V
0V
0V
0V
7.4V
R281
27K
C253
16V10
R263
12K
C261
47P
B
R899
68K
C
R267
27K
R271
39
C263
1000P
C264
1000P
C259
100P
Q204
KRA111MTA
MUTING CONT.
C252
50V3.3
C372
16V10
R276
2.2K
5V
-3.1V
R273
150K
R269
39
R270
39
D215
MTZJ5R1BTA
R274
120K
7.2V
C267
0.01
G
H
C
C305
16V10
R336
10K
A
R330
100K
Q214
2SD2144STA
MUTING
R346
18K
IC206
M5218AFPE3
BUFFER AMP
0V
R331
1K
0.6V
C306
50V0.47
C379
100P
C380
47P
C381
16V10
R343
2.2K
B
C378
0.01
-7.2V
0V
0V
Q213
KRA111MTA
MUTING CONT.
R333
3.3K
1.6V
1.5V
R332
150K
R334
820K
0V
B
C
R335
10K
0V
0V
7.4V
C375
100P
C376
47P
C377
0.01
R275
2.7K
R342
10K
R341
10K
R348
3.9K
5.3V
14.4V
-7.2V
7.4V
5.7V
9V
9V
7.8V

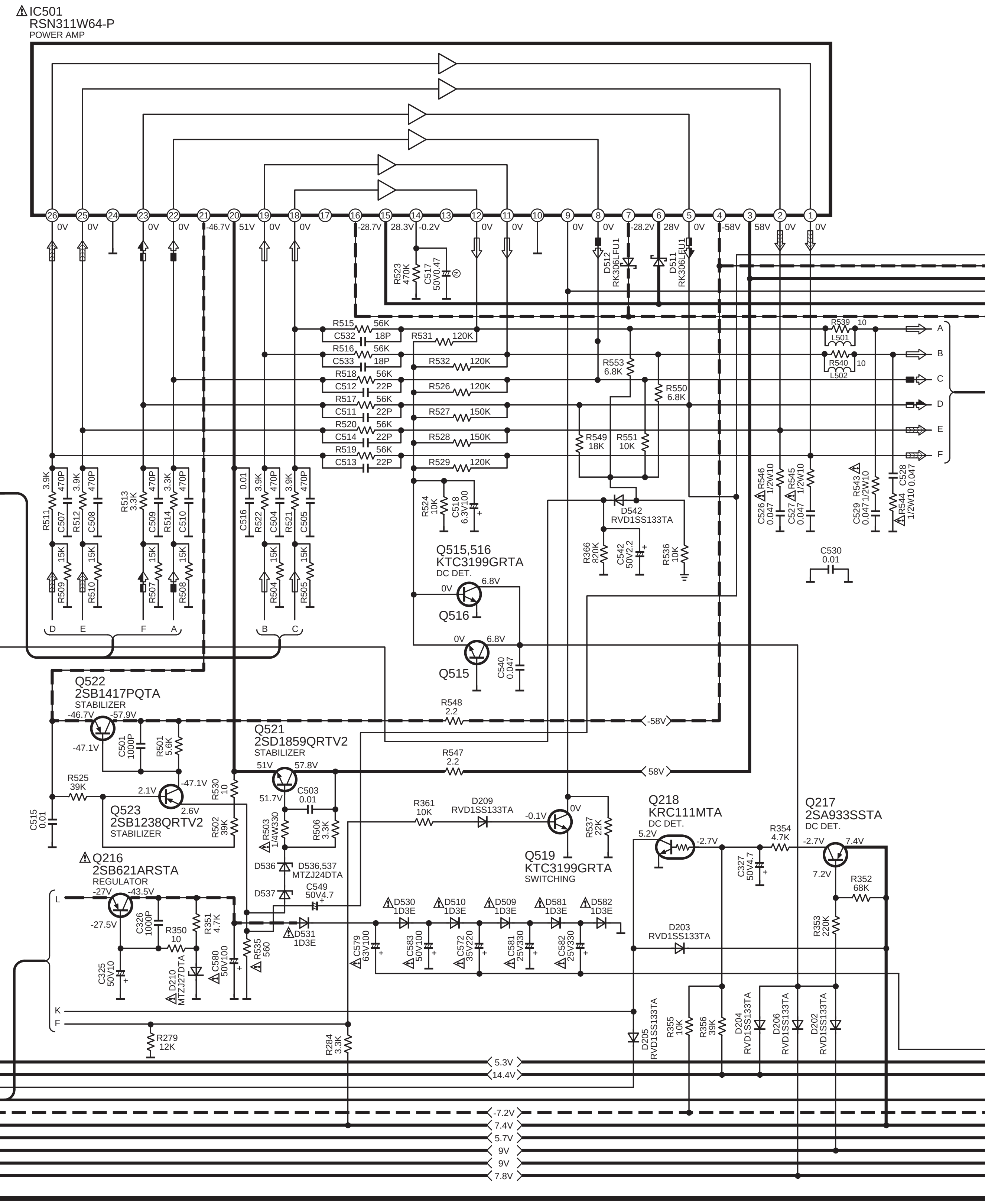
SCHEMATIC DIAGRAM - 49

: +B signal line
: -B signal line
: Audio signal line
: Surround speaker signal line
: Center speaker signal line
: Subwoofer speaker signal line


-7.2V
Q207
KRA111MTA
ATTENUATOR
CONT.
Q208
KTC3199GRTA
ATTENUATOR
R349
1K
0V
-1.2V
-0.2V
0V
C291
50V3.3
C289
0.01
C885
5600P
C881
0.15
C879
0.1
C880
0.039
R820
270K
R828
82K
R824
82K
R312
33K
R818
15K
C884
0.047
R821
8.2K
C878
16V10
A
R311
18K
0V
-7.2V
Vss
IC205
M5228FPE1
BUFFER AMP
C319
16V10
C320
16V10
Vcc
7.4V
C882
50V1
B
R825
15K
C887
0.047
C889
0.1
C888
0.1
R826
15K
R827
39K
R830
39K
C886
0.047
C883
50V1
C
7.4V
C314
0.01
R283
5.6K
Q211,212
2SD2144STA
MUTING
D
E
C294
16V10
R320
5.6K
R323
100
C301
16V10
R314
100K
Q212
0.6V
C293
16V10
R319
5.6K
R321
27K
R322
27K
R324
100
C302
16V10
R313
100K
Q211
C299
47P
C297
100P
C298
100P
C300
47P
R316
1K
IC207
M5228FPE1
BUFFER AMP
Q210
KRA111MTA
MUTING CONT.
C292
50V3.3
R327
5.6K
1.5V
1.4V
R325
150K
R395
22K
R326
68K
R345
5.6K
C316
47P
C317
680P
C315
0.01
C309
680P
C310
47P
R340
4.7K
C312
16V10
F
R841
3.3K
R347
82K
R338
120K
R823
2.7K
R822
2.7K
C373
16V10
5.3V
14.4V
-7.2V
7.4V
5.7V
9V
9V
7.8V

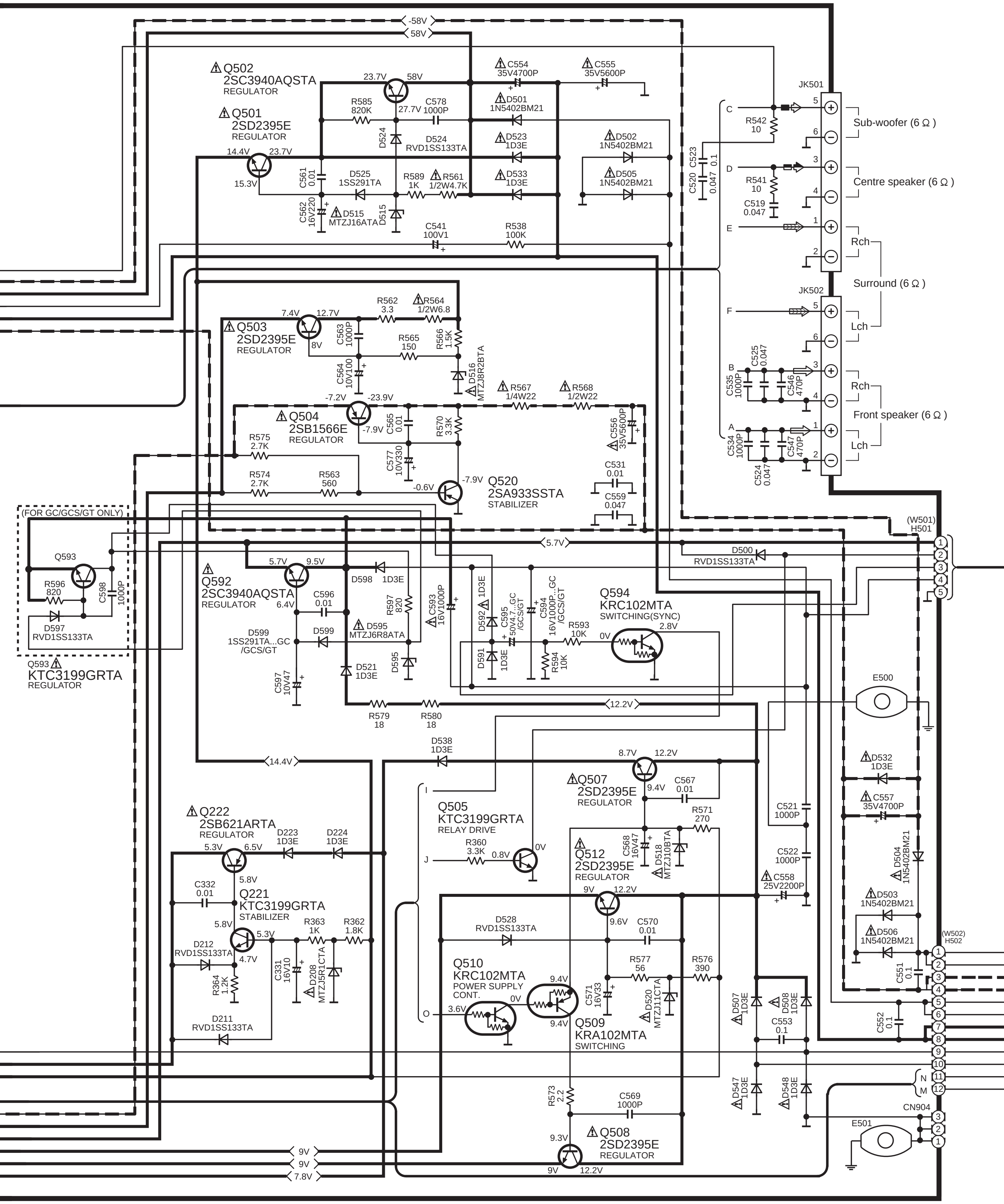
SCHEMATIC DIAGRAM - 50

: +B signal line
: Audio signal line
: Center speaker signal line
: -B signal line
: Surround speaker signal line
: Subwoofer speaker signal line


IC501
RSN311W64-P
POWER AMP
26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
0V 0V 0V 0V -46.7V 51V 0V 0V -28.7V 28.3V -0.2V 0V 0V 0V 0V -28.2V 28V 0V -58V 58V 0V 0V
R523 470K
C517 50V0.47
D512 RK306LFU1
D511 RK306LFU1
R515 56K
C532 18P
R531 120K
R516 56K
C533 18P
R532 120K
R518 56K
C512 22P
R526 120K
R517 56K
C511 22P
R527 150K
R520 56K
C514 22P
R528 150K
R519 56K
C513 22P
R529 120K
R553 6.8K
R550 6.8K
R549 18K
R551 10K
R539 10
L501
R540 10
L502
A
B
C
D
E
F
R511 3.9K
C507 470P
R512 3.9K
C508 470P
R513 3.3K
C509 470P
R514 3.3K
C510 470P
C516 0.01
R522 3.9K
C504 470P
R521 3.9K
C505 470P
R509 15K
R510 15K
R507 15K
R508 15K
R504 15K
R505 15K
D E F A
B C
R524 10K
C518 6.3V100
D542 RVD1SS133TA
R366 820K
C542 50V2.2
R536 10K
C526 0.047
R546 1/2W10
C527 0.047
R545 1/2W10
C529 0.047
R543 1/2W10
R544 1/2W10
C528 0.047
C530 0.01
Q515,516
KTC3199GRTA
DC DET.
0V 6.8V
Q516
0V 6.8V
Q515
C540 0.047
Q522
2SB1417PQTA
STABILIZER
-46.7V -57.9V
-47.1V
C501 1000P
R501 5.6K
R548 2.2
-58V
Q521
2SD1859QRTV2
STABILIZER
51V 57.8V
R547 2.2
58V
R525 39K
2.1V -47.1V
2.6V
Q523
2SB1238QRTV2
STABILIZER
C515 0.01
R530 10
R502 39K
51.7V
C503 0.01
R503 1/4W330
R506 3.3K
R361 10K
D209 RVD1SS133TA
-0.1V 0V
Q519
KTC3199GRTA
SWITCHING
R537 22K
Q218
KRC111MTA
DC DET.
5.2V -2.7V
C327 50V4.7
R354 4.7K
Q217
2SA933SSTA
DC DET.
-2.7V 7.4V
7.2V
R352 68K
R353 220K
D536 D536,537 MTZJ24DTA
D537
C549 50V4.7
Q216
2SB621ARSTA
REGULATOR
-27V -43.5V
L
-27.5V
C326 1000P
R350 10
R351 4.7K
C325 50V10
D210 MTZJ27DTA
C580 50V100
R535 560
D531 1D3E
D530 1D3E
D510 1D3E
D509 1D3E
D581 1D3E
D582 1D3E
C579 63V100
C583 50V100
C572 35V220
C581 25V330
C582 25V330
D203 RVD1SS133TA
K
F
R279 12K
R284 3.3K
D205 RVD1SS133TA
R355 10K
R356 39K
D204 RVD1SS133TA
D206 RVD1SS133TA
D202 RVD1SS133TA
5.3V
14.4V
-7.2V
7.4V
5.7V
9V
9V
7.8V

SCHEMATIC DIAGRAM - 51

—— : +B signal line
– – : -B signal line
➡ : AM signal line
⇨ : FM signal line


-58V
58V
⚠Q502
2SC3940AQSTA
REGULATOR
⚠Q501
2SD2395E
REGULATOR
23.7V
58V
14.4V
23.7V
15.3V
R585
820K
27.7V
C578
1000P
D524
D524
RVD1SS133TA
C561
0.01
D525
1SS291TA
R589
1K
⚠R561
1/2W4.7K
C562
16V220
⚠D515
MTZJ16ATA
D515
⚠C554
35V4700P
⚠D501
1N5402BM21
⚠D523
1D3E
⚠D533
1D3E
⚠C555
35V5600P
⚠D502
1N5402BM21
⚠D505
1N5402BM21
C541
100V1
R538
100K
JK501
C
R542
10
C523
0.1
C520
0.047
D
R541
10
C519
0.047
E
Sub-woofer (6 Ω)
Centre speaker (6 Ω)
Rch
Surround (6 Ω)
Lch
JK502
F
B
C525
0.047
C535
1000P
C546
470P
Rch
Front speaker (6 Ω)
A
C534
1000P
C547
470P
C524
0.047
Lch
⚠Q503
2SD2395E
REGULATOR
7.4V
12.7V
8V
R562
3.3
⚠R564
1/2W6.8
C563
1000P
R565
150
R566
1.5K
C564
10V100
D516
⚠D516
MTZJ8R2BTA
⚠Q504
2SB1566E
REGULATOR
-7.2V
-23.9V
-7.9V
C565
0.01
R570
3.3K
⚠R567
1/4W22
⚠R568
1/2W22
⚠C556
35V5600P
R575
2.7K
C577
10V330
R574
2.7K
R563
560
-0.6V
-7.9V
Q520
2SA933SSTA
STABILIZER
C531
0.01
C559
0.047
(FOR GC/GCS/GT ONLY)
Q593
R596
820
C598
1000P
D597
RVD1SS133TA
Q593⚠
KTC3199GRTA
REGULATOR
5.7V
⚠
Q592
2SC3940AQSTA
REGULATOR
5.7V
9.5V
6.4V
C596
0.01
D598
1D3E
R597
820
D599
1SS291TA...GC
/GCS/GT
D599
⚠D595
MTZJ6R8ATA
D595
C593
16V1000P
D521
1D3E
C597
10V47
R579
18
R580
18
12.2V
⚠D592
1D3E
C595
50V4.7...GC
/GCS/GT
C594
16V1000P...GC
/GCS/GT
D591
1D3E
R594
10K
R593
10K
Q594
KRC102MTA
SWITCHING(SYNC)
2.8V
0V
D500
RVD1SS133TA
(W501)
H501
1
2
3
4
5
E500
D538
1D3E
14.4V
8.7V
12.2V
⚠Q507
2SD2395E
REGULATOR
9.4V
C567
0.01
R571
270
I
Q505
KTC3199GRTA
RELAY DRIVE
R360
3.3K
J
0.8V
0V
⚠
Q512
2SD2395E
REGULATOR
C568
16V47
⚠D518
MTZJ11OBTA
C521
1000P
C522
1000P
⚠C558
25V2200P
⚠D532
1D3E
⚠C557
35V4700P
⚠D504
1N5402BM21
⚠D503
1N5402BM21
⚠D506
1N5402BM21
⚠Q222
2SB621ARTA
REGULATOR
5.3V
6.5V
D223
1D3E
D224
1D3E
5.8V
C332
0.01
Q221
KTC3199GRTA
STABILIZER
5.8V
5.3V
R363
1K
R362
1.8K
D212
RVD1SS133TA
4.7V
R364
1.2K
C331
16V10
⚠D208
MTZJ5R1CTA
D211
RVD1SS133TA
9V
12.2V
D528
RVD1SS133TA
9.6V
C570
0.01
Q510
KRC102MTA
POWER SUPPLY
CONT.
9.4V
0V
3.6V
O
9.4V
Q509
KRA102MTA
SWITCHING
C571
16V33
⚠D520
MTZJ11CTA
R577
56
R576
390
⚠D507
1D3E
⚠D508
1D3E
C553
0.1
⚠D547
1D3E
⚠D548
1D3E
(W502)
H502
C551
0.1
C552
0.1
1
2
3
4
5
6
7
8
9
10
N
11
M
12
CN904
3
2
1
E501
R573
2.2
C569
1000P
9.3V
⚠Q508
2SD2395E
REGULATOR
9V
12.2V
9V
9V
7.8V

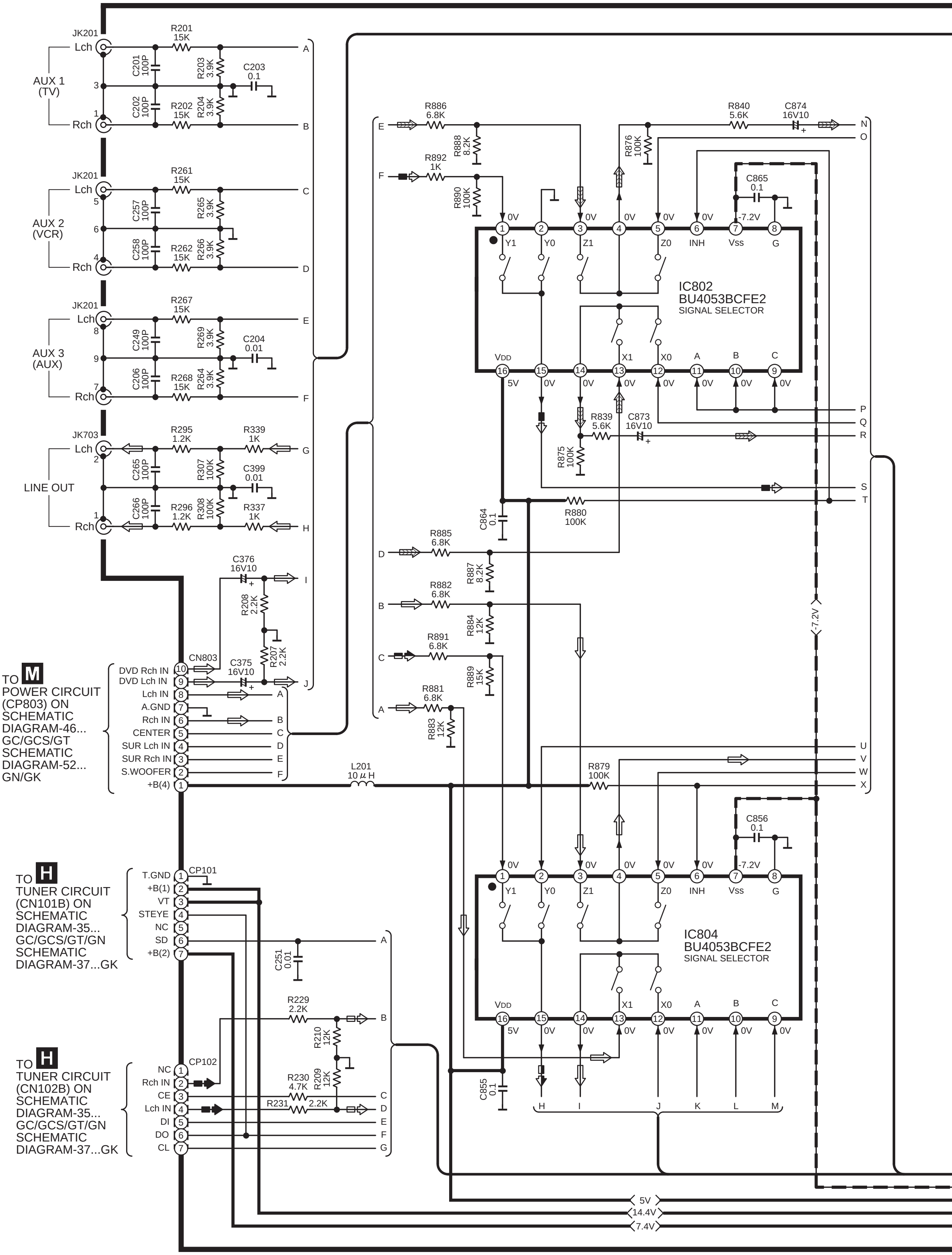
SCHEMATIC DIAGRAM - 41

For GC/GCS/GK/GT only

For GN only

K DSP CIRCUIT

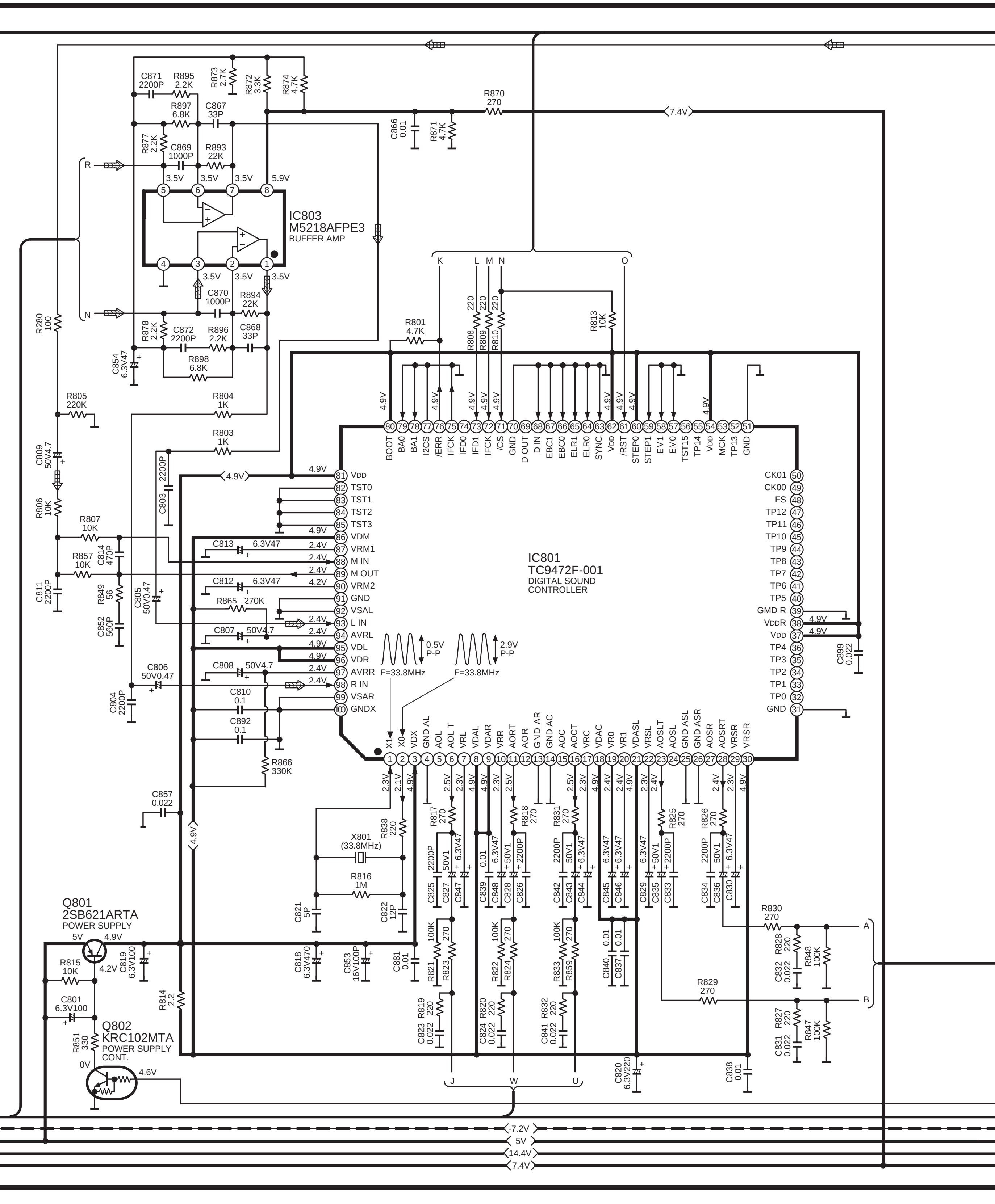
: +B signal line
: -B signal line
: FM signal line
: AM signal line
: Audio signal line
: Surround speaker signal line
: Center speaker signal line
: Subwoofer speaker signal line



JK201
Lch
Rch
AUX 1 (TV)
AUX 2 (VCR)
AUX 3 (AUX)
R201 15K
C201 100P
R203 3.9K
C203 0.1
C202 100P
R202 15K
R204 3.9K
R261 15K
C257 100P
R265 3.9K
C258 100P
R262 15K
R266 3.9K
R267 15K
C249 100P
R269 3.9K
C204 0.01
C206 100P
R268 15K
R264 3.9K
JK703
LINE OUT
R295 1.2K
R339 1K
C265 100P
R307 100K
C399 0.01
C266 100P
R296 1.2K
R308 100K
R337 1K
C376 16V10
R208 2.2K
R207 2.2K
C375 16V10
CN803
TO M
POWER CIRCUIT (CP803) ON SCHEMATIC DIAGRAM-46... GC/GCS/GT SCHEMATIC DIAGRAM-52... GN/GK
DVD Rch IN
DVD Lch IN
Lch IN
A.GND
Rch IN
CENTER
SUR Lch IN
SUR Rch IN
S.WOOFER
+B(4)
L201 10μH
TO H
TUNER CIRCUIT (CN101B) ON SCHEMATIC DIAGRAM-35... GC/GCS/GT/GN SCHEMATIC DIAGRAM-37...GK
CP101
T.GND
+B(1)
VT
STEYE
NC
SD
+B(2)
C251 0.01
R229 2.2K
R210 12K
R209 12K
R230 4.7K
R231 2.2K
TUNER CIRCUIT (CN102B) ON SCHEMATIC DIAGRAM-35... GC/GCS/GT/GN SCHEMATIC DIAGRAM-37...GK
CP102
NC
Rch IN
CE
Lch IN
DI
DO
CL
R886 6.8K
R888 8.2K
R892 1K
R890 100K
R840 5.6K
C874 16V10
R876 100K
C865 0.1
-7.2V
IC802
BU4053BCFE2
SIGNAL SELECTOR
Y1 Y0 Z1 Z0 INH Vss G
VDD X1 X0 A B C
5V
0V
R839 5.6K
C873 16V10
R875 100K
C864 0.1
R880 100K
R885 6.8K
R887 8.2K
R882 6.8K
R884 12K
R891 6.8K
R889 15K
R881 6.8K
R883 12K
R879 100K
C856 0.1
IC804
BU4053BCFE2
SIGNAL SELECTOR
C855 0.1
5V
14.4V
7.4V
A B C D E F G H I J K L M N O P Q R S T U V W X

SCHEMATIC DIAGRAM - 42

: +B signal line
: -B signal line
: Surround speaker signal line
: Mic signal line

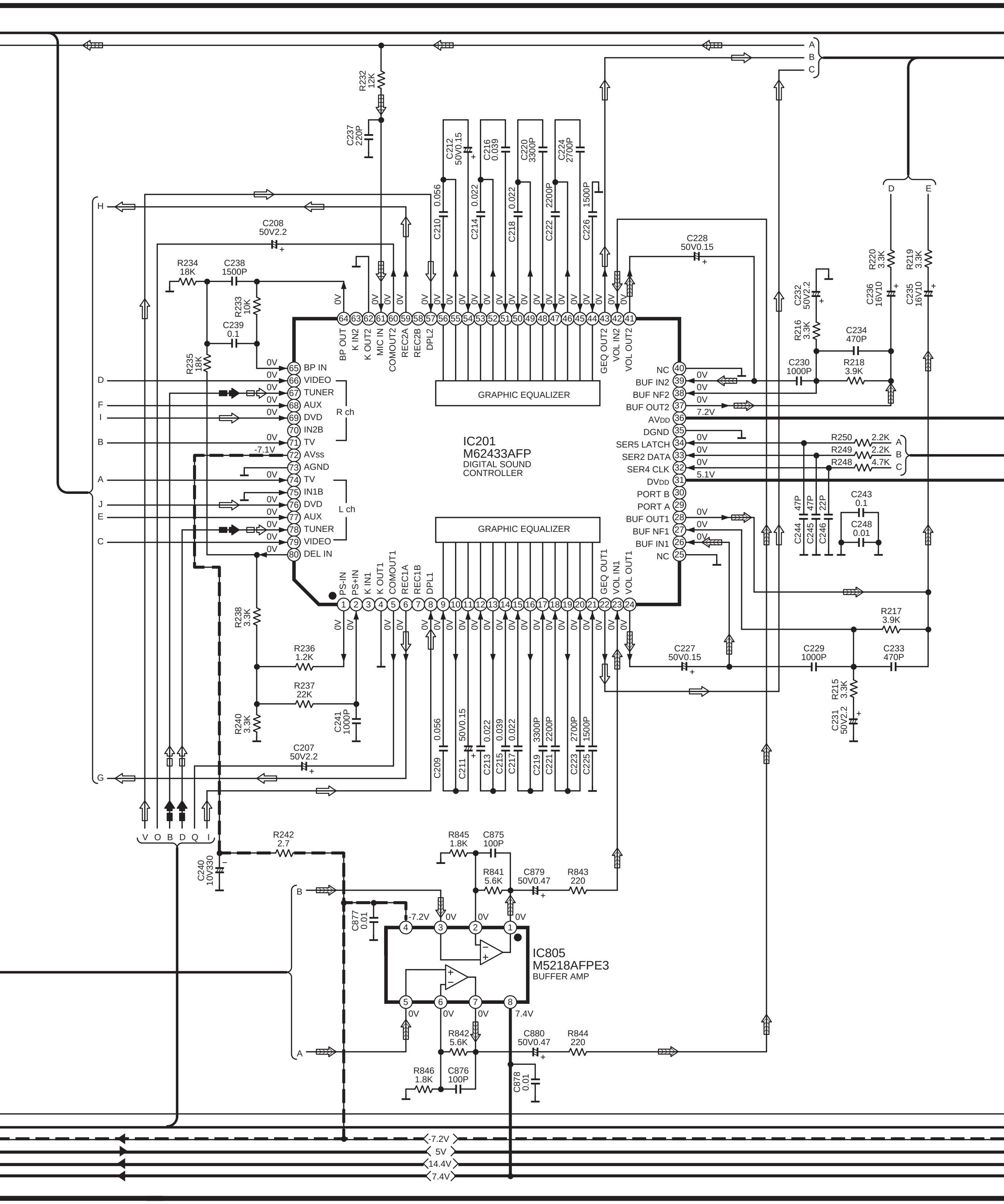


C871 2200P
R895 2.2K
R873 2.7K
R872 3.3K
R874 4.7K
R870 270
7.4V
R897 6.8K
C867 33P
C866 0.01
R871 4.7K
R877 2.2K
C869 1000P
R893 22K
R
3.5V
5.9V
IC803
M5218AFPE3
BUFFER AMP
K
L
M
N
O
C870 1000P
R894 22K
N
R878 2.2K
C872 2200P
R896 2.2K
C868 33P
R898 6.8K
C854 6.3V47
R280 100
R801 4.7K
R808 220
R809 220
R810 220
R813 10K
R805 220K
R804 1K
R803 1K
C809 50V4.7
C803 2200P
4.9V
R806 10K
R807 10K
R857 10K
C814 470P
C811 2200P
R849 56
C805 50V0.47
C852 560P
C813 6.3V47
C812 6.3V47
R865 270K
C807 50V4.7
C806 50V0.47
C808 50V4.7
C804 2200P
C810 0.1
C892 0.1
R866 330K
C857 0.022
0.5V P-P
2.9V P-P
F=33.8MHz
F=33.8MHz
BOOT
BA0
BA1
I2CS
/ERR
IFCK
IFD0
IFD1
IFCK
/CS
GND
D OUT
D IN
EBC1
EBC0
ELR1
ELR0
SYNC
VDD
/RST
STEP0
STEP1
EM1
EM0
TST15
TP14
VDD
MCK
TP13
GND
VDD
TST0
TST1
TST2
TST3
VDM
VRM1
M IN
M OUT
VRM2
GND
VSAL
L IN
AVRL
VDL
VDR
AVRR
R IN
VSAR
GNDX
2.4V
4.2V
IC801
TC9472F-001
DIGITAL SOUND CONTROLLER
CK01
CK00
FS
TP12
TP11
TP10
TP9
TP8
TP7
TP6
TP5
GMD R
VDDR
VDD
TP4
TP3
TP2
TP1
TP0
GND
C899 0.022
X1
X0
VDX
GND AL
AOL
AOL T
VRL
VDAL
VDAR
VRR
AORT
AOR
GND AR
GND AC
AOC
AOCT
VRC
VDAC
VR0
VR1
VDASL
VRSL
AOSLT
AOSL
GND ASL
GND ASR
AOSR
AOSRT
VRSR
VRSR
2.3V
2.1V
2.5V
R817 270
R818 270
R831 270
R825 270
R826 270
R838 220
X801 (33.8MHz)
R816 1M
C821 5P
C822 12P
C825 2200P
C827 50V1
C847 6.3V47
C839 0.01
C848 6.3V47
C828 50V1
C826 2200P
C842 2200P
C843 50V1
C844 6.3V47
C845 6.3V47
C846 6.3V47
C829 6.3V47
C835 50V1
C833 2200P
C834 2200P
C836 50V1
C830 6.3V47
R830 270
R828 220
R848 100K
C832 0.022
A
R829 270
B
R827 220
R847 100K
C831 0.022
Q801
2SB621ARTA
POWER SUPPLY
5V
R815 10K
C819 6.3V100
C801 6.3V100
Q802
KRC102MTA
POWER SUPPLY CONT.
R851 330
0V
4.6V
C818 6.3V470
C853 16V100P
C881 0.01
R814 2.2
R821 100K
R823 270
R822 100K
R824 270
R833 100K
R859 270
C840 0.01
C837 0.01
R819 220
C823 0.022
R820 220
C824 0.022
R832 220
C841 0.022
C820 6.3V220
C838 0.01
J
W
U
-7.2V
5V
14.4V
7.4V

SCHEMATIC DIAGRAM - 43

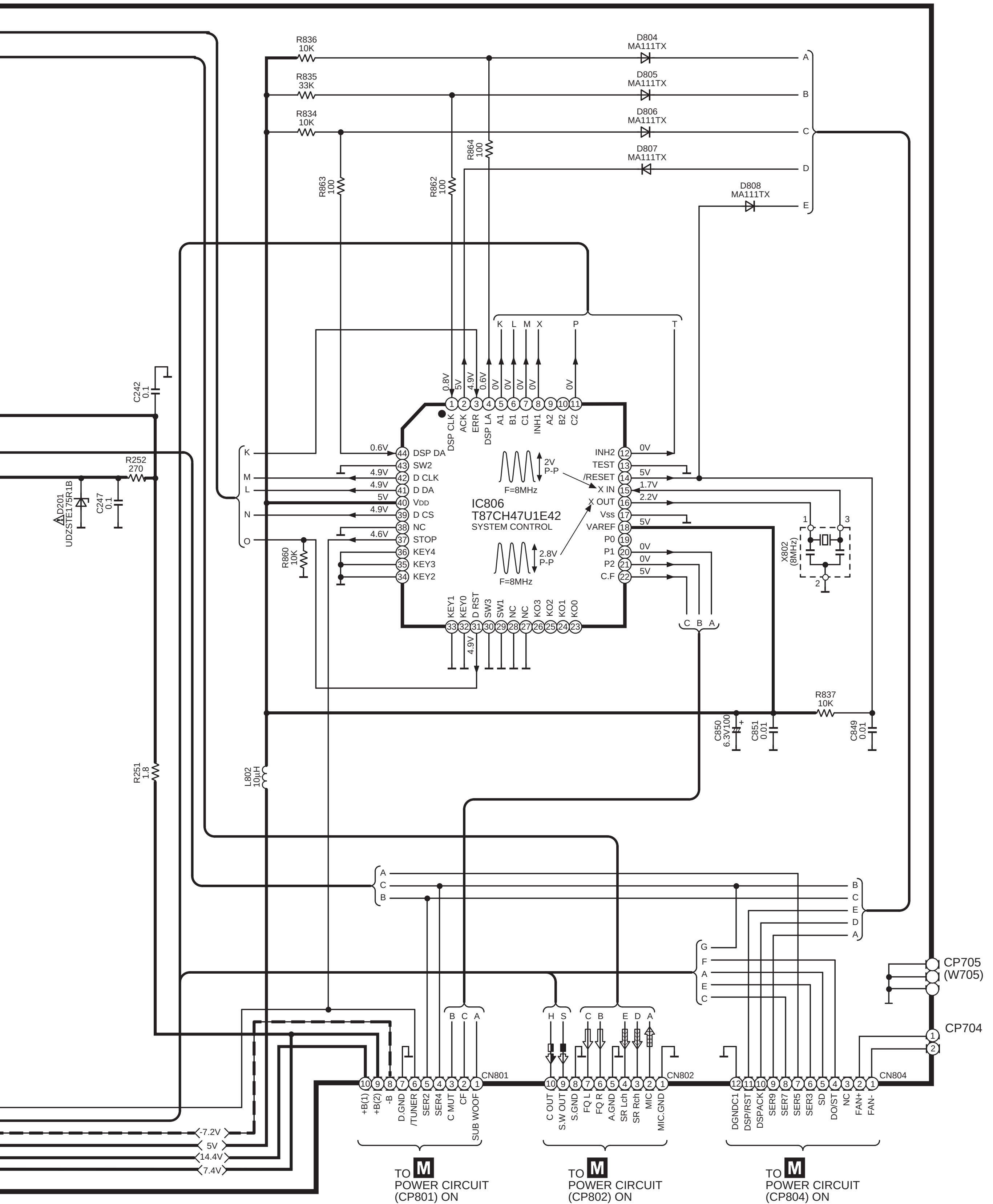
━━ : +B signal line ▭▷ : FM signal line ⇨ : Audio signal line ▭▭▷ : Mic signal line

━ ━ : -B signal line ■▶ : AM signal line ⋙ : Surround speaker signal line


IC201
M62433AFP
DIGITAL SOUND
CONTROLLER
GRAPHIC EQUALIZER
GRAPHIC EQUALIZER
BP OUT
K IN2
K OUT2
MIC IN
COMOUT2
REC2A
REC2B
DPL2
GEQ OUT2
VOL IN2
VOL OUT2
BP IN
VIDEO
TUNER
AUX
DVD
IN2B
TV
AVss
AGND
TV
IN1B
DVD
AUX
TUNER
VIDEO
DEL IN
R ch
L ch
NC
BUF IN2
BUF NF2
BUF OUT2
AVDD
DGND
SER5 LATCH
SER2 DATA
SER4 CLK
DVDD
PORT B
PORT A
BUF OUT1
BUF NF1
BUF IN1
NC
PS-IN
PS+IN
K IN1
K OUT1
COMOUT1
REC1A
REC1B
DPL1
GEQ OUT1
VOL IN1
VOL OUT1
7.2V
5.1V
-7.1V
R232 12K
C237 220P
C212 50V0.15
C216 0.039
C220 3300P
C224 2700P
C210 0.056
C214 0.022
C218 0.022
C222 2200P
C226 1500P
C208 50V2.2
C228 50V0.15
R234 18K
C238 1500P
R233 10K
C239 0.1
R235 18K
C232 50V2.2
R216 3.3K
C234 470P
R220 3.3K
R219 3.3K
C236 16V10
C235 16V10
C230 1000P
R218 3.9K
R250 2.2K
R249 2.2K
R248 4.7K
C244 47P
C245 47P
C246 22P
C243 0.1
C248 0.01
R217 3.9K
C227 50V0.15
C229 1000P
C233 470P
R215 3.3K
C231 50V2.2
R238 3.3K
R236 1.2K
R237 22K
R240 3.3K
C241 1000P
C207 50V2.2
C209 0.056
C211 50V0.15
C213 0.022
C215 0.039
C217 0.022
C219 3300P
C221 2200P
C223 2700P
C225 1500P
V O B D Q I
R242 2.7
C240 10V330
IC805
M5218AFPE3
BUFFER AMP
R845 1.8K
C875 100P
R841 5.6K
C879 50V0.47
R843 220
C877 0.01
-7.2V
7.4V
R842 5.6K
C880 50V0.47
R844 220
R846 1.8K
C876 100P
C878 0.01
A
B
C
D
E
F
G
H
I
J
-7.2V
5V
14.4V
7.4V

SCHEMATIC DIAGRAM - 44

: +B signal line
: -B signal line
: FM signal line
: AM signal line
: Audio signal line
: Surround speaker signal line
: Mic signal line



R836
10K
R835
33K
R834
10K
D804
MA111TX
D805
MA111TX
D806
MA111TX
D807
MA111TX
D808
MA111TX
A
B
C
D
E
R864
100
R863
100
R862
100
K L M X P T
C242
0.1
R252
270
D201
UDZSTE175R1B
C247
0.1
R860
10K
IC806
T87CH47U1E42
SYSTEM CONTROL
1 DSP CLK 0.8V
2 ACK 5V
3 ERR 4.9V
4 DSP LA 0.6V
5 A1 0V
6 B1 0V
7 C1 0V
8 INH1 0V
9 A2
10 B2
11 C2 0V
12 INH2 0V
13 TEST
14 /RESET 5V
15 X IN 1.7V
16 X OUT 2.2V
17 Vss
18 VAREF 5V
19 P0
20 P1 0V
21 P2 0V
22 C.F 5V
23 KO0
24 KO1
25 KO2
26 KO3
27 NC
28 NC
29 SW1
30 SW3
31 D RST 4.9V
32 KEY0
33 KEY1
34 KEY2
35 KEY3
36 KEY4
37 STOP 4.6V
38 NC
39 D CS 4.9V
40 VDD 5V
41 D DA 4.9V
42 D CLK 4.9V
43 SW2
44 DSP DA 0.6V
2V P-P
F=8MHz
2.8V P-P
F=8MHz
X802
(8MHz)
1 2 3
R837
10K
C850
6.3V100
C851
0.01
C849
0.01
R251
1.8
L802
10μH
CP705
(W705)
CP704
CN801
10 +B(1)
9 +B(2)
8 -B
7 D.GND
6 /TUNER
5 SER2
4 SER4
3 C.MUT
2 CF
1 SUB WOOF
CN802
10 C OUT
9 S.W OUT
8 S.GND
7 FQ L
6 FQ R
5 A.GND
4 SR Lch
3 SR Rch
2 MIC
1 MIC.GND
CN804
12 DGNDC1
11 DSP/RST
10 DSPACK
9 SER9
8 SER7
7 SER5
6 SER3
5 SD
4 DO/ST
3 NC
2 FAN+
1 FAN-
-7.2V
5V
14.4V
7.4V

TO M
POWER CIRCUIT
(CP801) ON
SCHEMATIC
DIAGRAM-46...GC/GCS/GT
SCHEMATIC
DIAGRAM-52...GN/GK

TO M
POWER CIRCUIT
(CP802) ON
SCHEMATIC
DIAGRAM-46...GC/GCS/GT
SCHEMATIC
DIAGRAM-52...GN/GK

TO M
POWER CIRCUIT
(CP804) ON
SCHEMATIC
DIAGRAM-46...GC/GCS/GT
SCHEMATIC
DIAGRAM-52...GN/GK

I POWER SWITCH CIRCUIT

For GC/GCS/GK/GT only

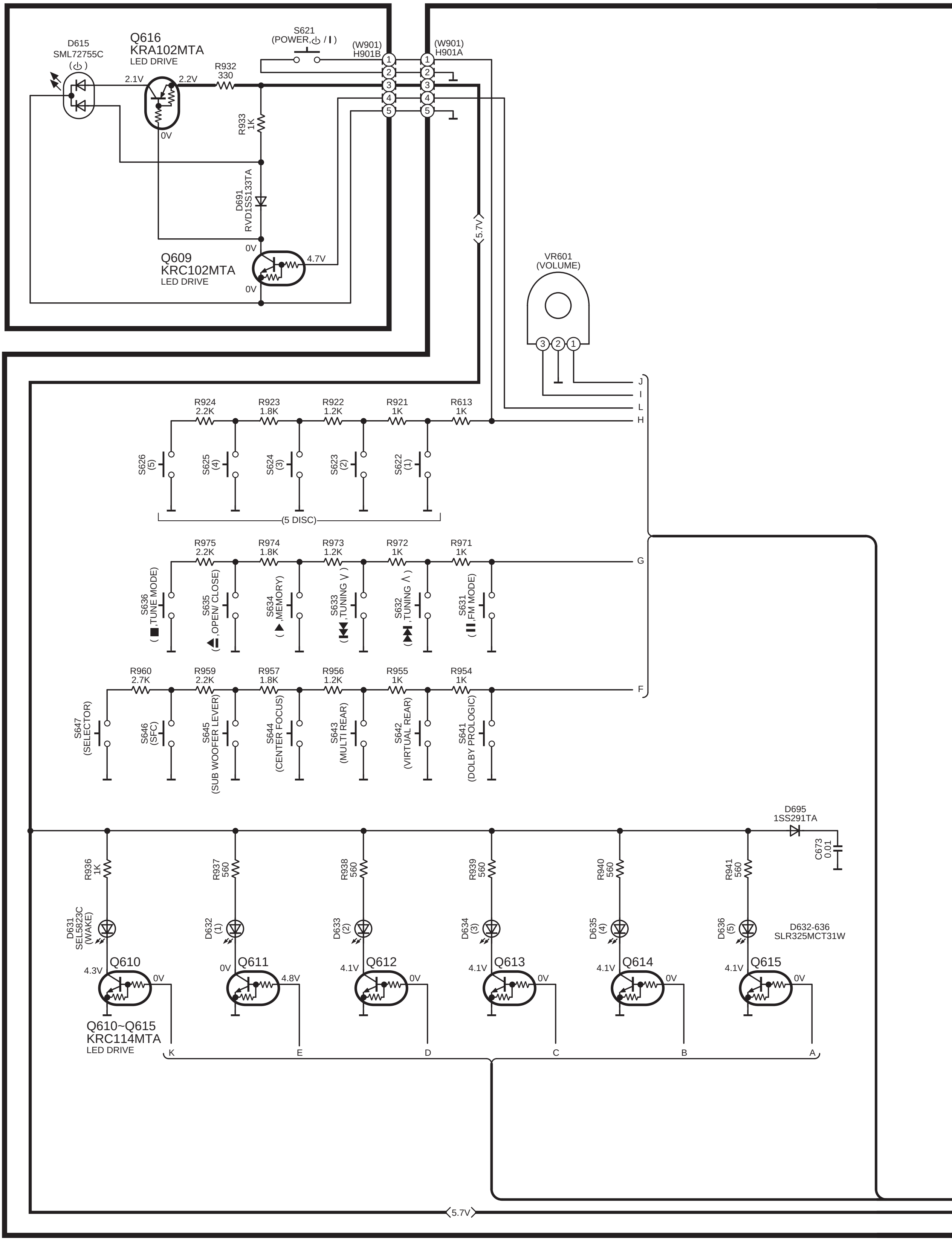
For GN only

J PANEL CIRCUIT

For GC/GCS/GK/GT only

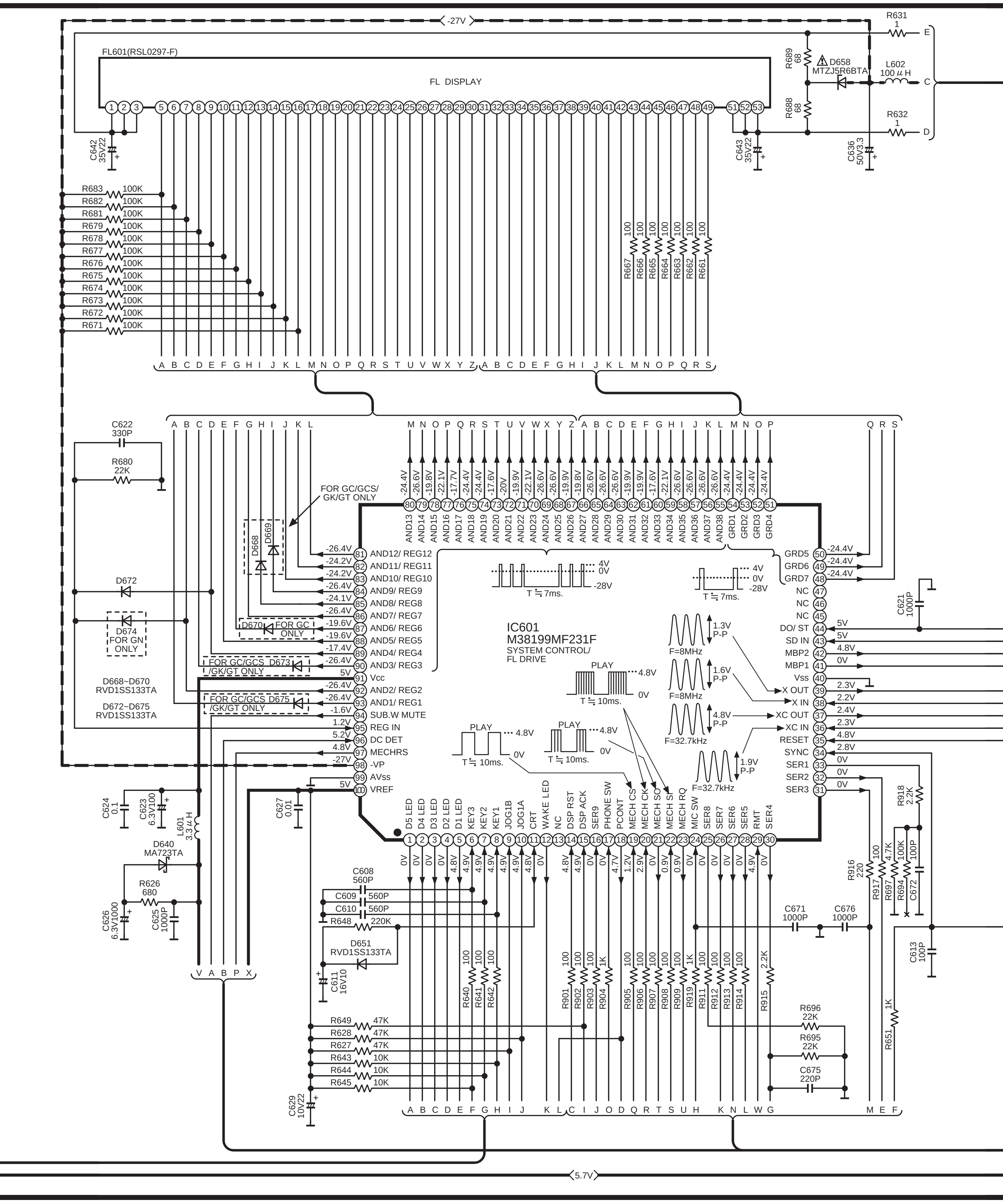
For GN only

:+B signal line


D615
SML72755C
(⏻)
Q616
KRA102MTA
LED DRIVE
2.1V
2.2V
0V
R932
330
S621
(POWER,⏻ / I)
(W901)
H901B
(W901)
H901A
1
2
3
4
5
R933
1K
D691
RVD1SS133TA
0V
Q609
KRC102MTA
LED DRIVE
4.7V
0V
5.7V
VR601
(VOLUME)
3
2
1
J
I
L
H
G
F
R924
2.2K
R923
1.8K
R922
1.2K
R921
1K
R613
1K
S626
(5)
S625
(4)
S624
(3)
S623
(2)
S622
(1)
(5 DISC)
R975
2.2K
R974
1.8K
R973
1.2K
R972
1K
R971
1K
S636
(■ ,TUNE MODE)
S635
(⏏ ,OPEN/ CLOSE)
S634
(▲ ,MEMORY)
S633
(⏭ ,TUNING ∨)
S632
(⏮ ,TUNING ∧)
S631
(❚❚ ,FM MODE)
R960
2.7K
R959
2.2K
R957
1.8K
R956
1.2K
R955
1K
R954
1K
S647
(SELECTOR)
S646
(SFC)
S645
(SUB WOOFER LEVER)
S644
(CENTER FOCUS)
S643
(MULTI REAR)
S642
(VIRTUAL REAR)
S641
(DOLBY PROLOGIC)
D695
1SS291TA
C673
0.01
R936
1K
R937
560
R938
560
R939
560
R940
560
R941
560
D631
SEL5823C
(WAKE)
D632
(1)
D633
(2)
D634
(3)
D635
(4)
D636
(5)
D632-636
SLR325MCT31W
4.3V
Q610
0V
0V
Q611
4.8V
4.1V
Q612
0V
4.1V
Q613
0V
4.1V
Q614
0V
4.1V
Q615
0V
Q610~Q615
KRC114MTA
LED DRIVE
K
E
D
C
B
A
5.7V

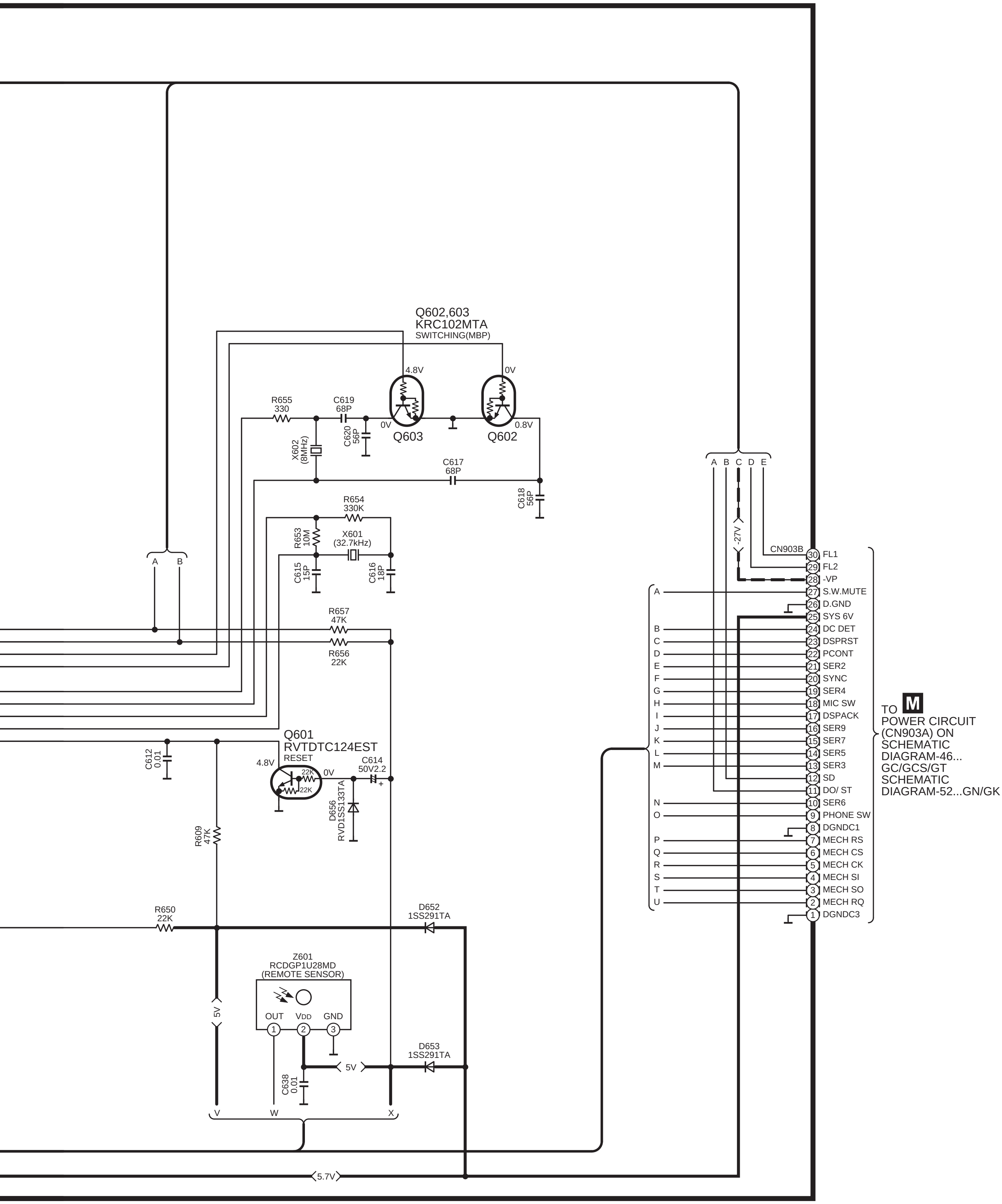
SCHEMATIC DIAGRAM - 39

:+B signal line :-B signal line


-27V
FL601(RSL0297-F)
FL DISPLAY
R631 1
R632 1
R689 68
R688 68
D658 MTZJ5R6BTA
L602 100μH
C642 35V22
C643 35V22
C636 50V3.3
E
C
D
R683 100K
R682 100K
R681 100K
R679 100K
R678 100K
R677 100K
R676 100K
R675 100K
R674 100K
R673 100K
R672 100K
R671 100K
R667 100
R666 100
R665 100
R664 100
R663 100
R662 100
R661 100
C622 330P
R680 22K
FOR GC/GCS/ GK/GT ONLY
D668
D669
D672
D674 FOR GN ONLY
D670 FOR GC ONLY
FOR GC/GCS D673 /GK/GT ONLY
FOR GC/GCS D675 /GK/GT ONLY
D668~D670 RVD1SS133TA
D672~D675 RVD1SS133TA
IC601
M38199MF231F
SYSTEM CONTROL/ FL DRIVE
AND13 AND14 AND15 AND16 AND17 AND18 AND19 AND20 AND21 AND22 AND23 AND24 AND25 AND26 AND27 AND28 AND29 AND30 AND31 AND32 AND33 AND34 AND35 AND36 AND37 AND38 GRD1 GRD2 GRD3 GRD4
AND12/ REG12
AND11/ REG11
AND10/ REG10
AND9/ REG9
AND8/ REG8
AND7/ REG7
AND6/ REG6
AND5/ REG5
AND4/ REG4
AND3/ REG3
Vcc
AND2/ REG2
AND1/ REG1
SUB.W MUTE
REG IN
DC DET
MECHRS
-VP
AVss
VREF
GRD5
GRD6
GRD7
NC
NC
NC
DO/ ST
SD IN
MBP2
MBP1
Vss
X OUT
X IN
XC OUT
XC IN
RESET
SYNC
SER1
SER2
SER3
D5 LED D4 LED D3 LED D2 LED D1 LED KEY3 KEY2 KEY1 JOG1B JOG1A CRT WAKE LED NC DSP RST DSP ACK SER9 PHONE SW PCONT MECH CS MECH CK MECH SO MECH SI MECH RQ MIC SW SER8 SER7 SER6 SER5 RMT SER4
4V 0V -28V T ≒ 7ms.
4V 0V -28V T ≒ 7ms.
1.3V P-P F=8MHz
1.6V P-P F=8MHz
4.8V P-P F=32.7kHz
1.9V P-P F=32.7kHz
PLAY 4.8V 0V T ≒ 10ms.
PLAY 4.8V 0V T ≒ 10ms.
PLAY 4.8V 0V T ≒ 10ms.
C621 1000P
R918 2.2K
R916 220
R917 100
R697 4.7K
R694 100K
C672 100P
C671 1000P
C676 1000P
C613 100P
R651 1K
R696 22K
R695 22K
C675 220P
C624 0.1
C623 6.3V100
L601 3.3μH
D640 MA723TA
R626 680
C626 6.3V1000
C625 1000P
C627 0.01
C608 560P
C609 560P
C610 560P
R648 220K
D651 RVD1SS133TA
C611 16V10
R640 100
R641 100
R642 100
R901 100
R902 100
R903 100
R904 1K
R905 100
R906 100
R907 100
R908 100
R909 100
R919 1K
R911 100
R912 100
R913 100
R914 100
R915 2.2K
R649 47K
R628 47K
R627 47K
R643 10K
R644 10K
R645 10K
C629 10V22
V A B P X
A B C D E F G H I J K L C I J O D Q R T S U H K N L W G M E F
5.7V

SCHEMATIC DIAGRAM - 40

—— : +B signal line   – – – : -B signal line



Q602,603
KRC102MTA
SWITCHING(MBP)
4.8V
0V
0V
0.8V
Q603
Q602
R655
330
C619
68P
C620
56P
X602
(8MHz)
C617
68P
C618
56P
R654
330K
R653
10M
X601
(32.7kHz)
C615
15P
C616
18P
A
B
R657
47K
R656
22K
Q601
RVTDTC124EST
RESET
4.8V
22K
22K
0V
C614
50V2.2
C612
0.01
D656
RVD1SS133TA
R609
47K
R650
22K
D652
1SS291TA
Z601
RCDGP1U28MD
(REMOTE SENSOR)
OUT
VDD
GND
1
2
3
5V
5V
D653
1SS291TA
C638
0.01
V
W
X
5.7V
A B C D E
-27V
CN903B
30 FL1
29 FL2
28 -VP
A 27 S.W.MUTE
26 D.GND
25 SYS 6V
B 24 DC DET
C 23 DSPRST
D 22 PCONT
E 21 SER2
F 20 SYNC
G 19 SER4
H 18 MIC SW
I 17 DSPACK
J 16 SER9
K 15 SER7
L 14 SER5
M 13 SER3
12 SD
11 DO/ ST
N 10 SER6
O 9 PHONE SW
8 DGNDC1
P 7 MECH RS
Q 6 MECH CS
R 5 MECH CK
S 4 MECH SI
T 3 MECH SO
U 2 MECH RQ
1 DGNDC3
TO M
POWER CIRCUIT
(CN903A) ON
SCHEMATIC
DIAGRAM-46...
GC/GCS/GT
SCHEMATIC
DIAGRAM-52...GN/GK

: AM signal line

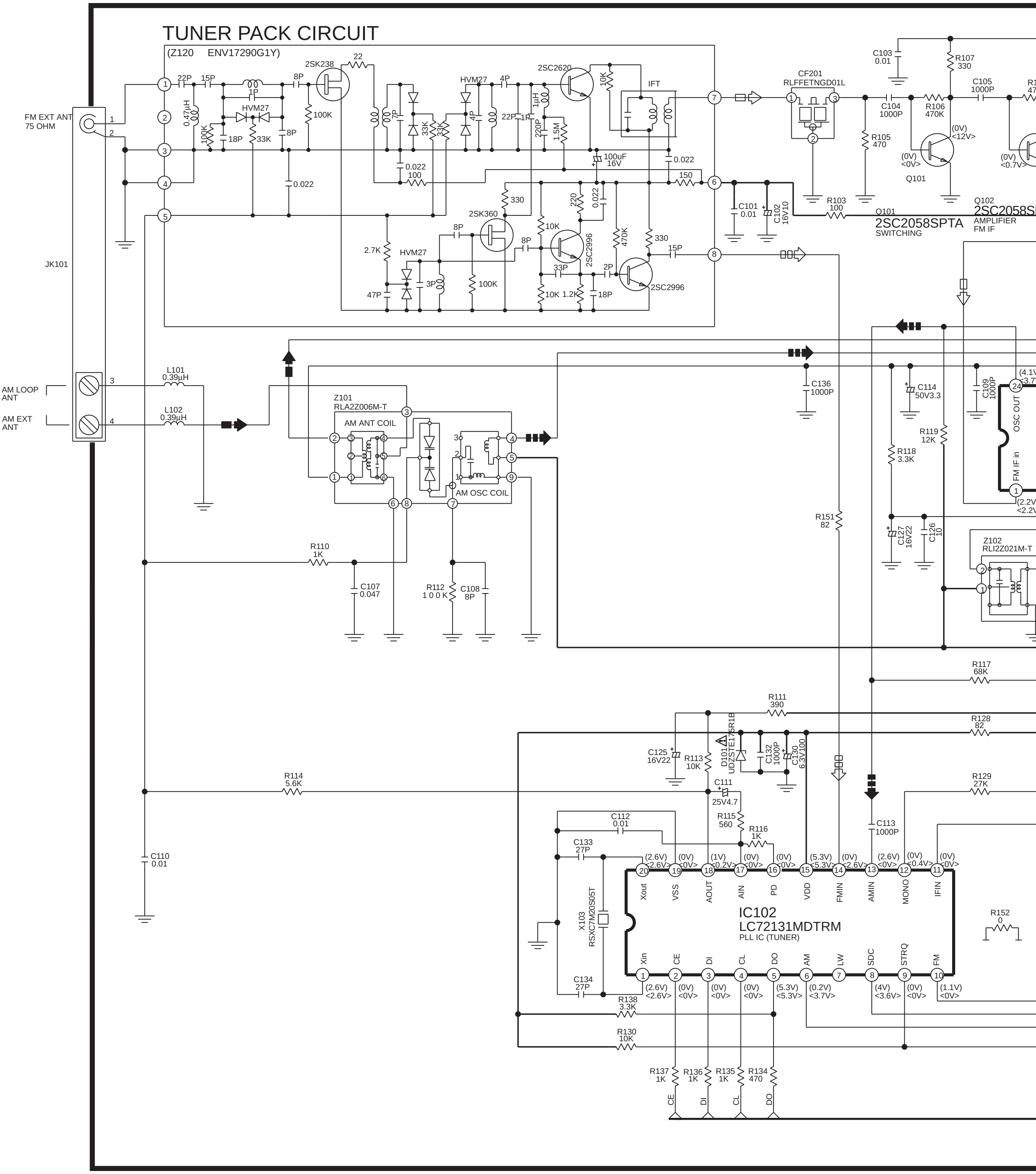
: FM signal line

: +B signal line

: AM OSC signal line

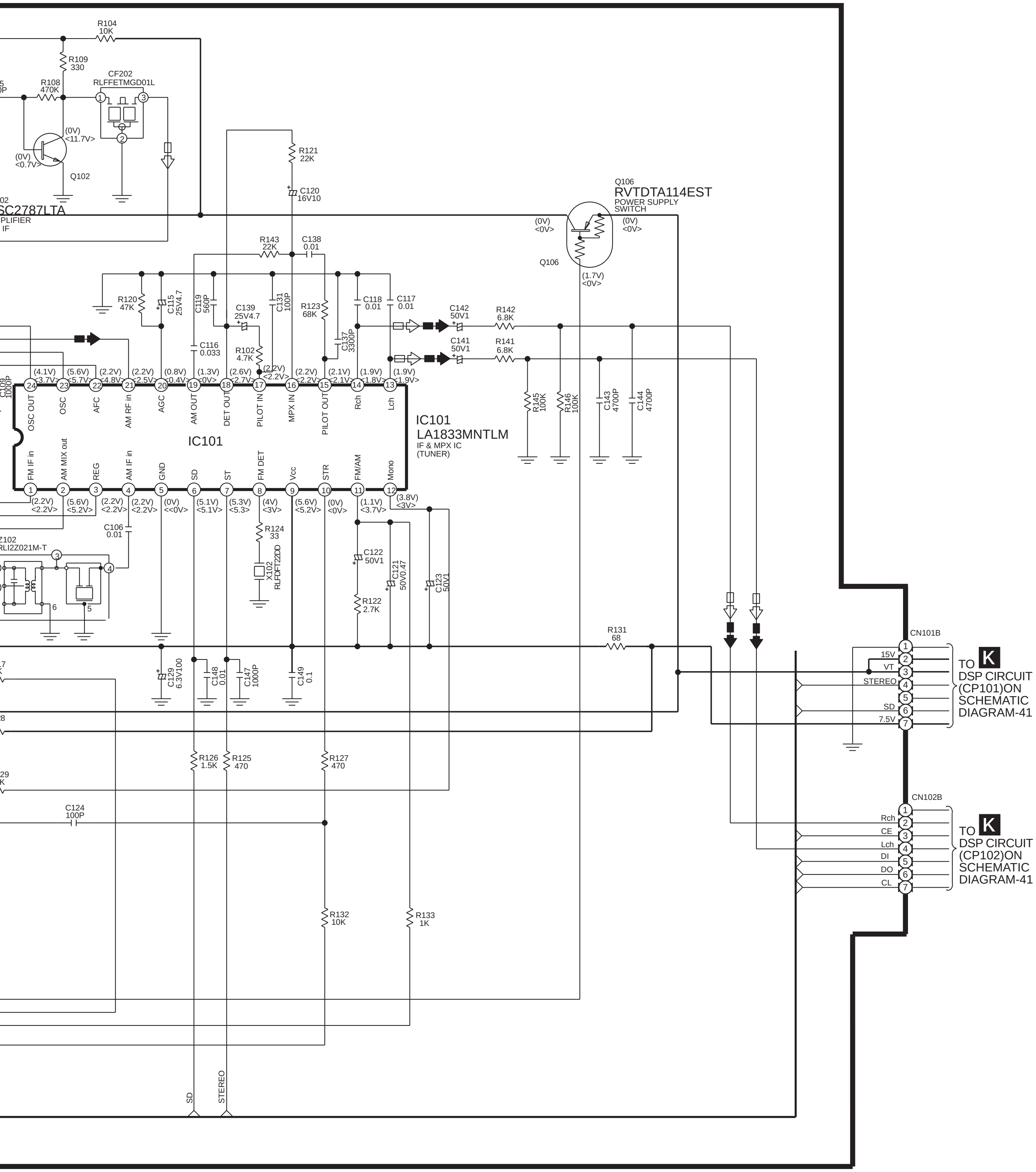
: FM OSC signal line

H TUNER CIRCUIT (FOR GK ONLY)


TUNER PACK CIRCUIT
(Z120 ENV17290G1Y)
2SK238
22
22P
15P
8P
1P
HVM27
0.47µH
100K
18P
33K
8P
100K
0.022
7P
33K
33K
HVM27
4P
4P
22P
1P
1µH
220P
1.5M
2SC2620
10K
IFT
100uF 16V
0.022
0.022 100
150
330
2SK360
8P
8P
2.7K
HVM27
47P
3P
100K
10K
2SC2996
220
0.022
470K
330
15P
33P
2P
10K
1.2K
18P
2SC2996
FM EXT ANT 75 OHM
JK101
1
2
3
4
5
6
7
8
AM LOOP ANT
AM EXT ANT
L101 0.39µH
L102 0.39µH
Z101 RLA2Z006M-T
AM ANT COIL
AM OSC COIL
R110 1K
C107 0.047
R112 100K
C108 8P
R114 5.6K
C110 0.01
CF201 RLFFETNGD01L
C103 0.01
R107 330
C104 1000P
R106 470K
C105 1000P
R105 470
(0V) <12V>
(0V) <0V>
(0V) <0.7V>
Q101
R103 100
C101 0.01
C102 16V10
Q101 2SC2058SPTA SWITCHING
Q102 2SC2058S
AMPLIFIER FM IF
C136 1000P
C114 50V3.3
C109 1000P
(4.1V) <3.7V>
24
OSC OUT
FM IF in
(2.2V) <2.2V>
R119 12K
R118 3.3K
R151 82
C127 16V22
C126 10
Z102 RLI2Z021M-T
R117 68K
R111 390
R128 82
C125 16V22
R113 10K
D101 UDZSTE175R1B
C132 1000P
C130 6.3V100
R129 27K
C111 25V4.7
R115 560
R116 1K
C112 0.01
C133 27P
C113 1000P
X103 RSXC7M20S05T
C134 27P
R138 3.3K
R130 10K
R152 0
(2.6V) <2.6V>
(0V) <0V>
(1V) <0.2V>
(0V) <0V>
(0V)
(5.3V) <5.3V>
(0V) <2.6V>
(2.6V) <0V>
(0V) <0.4V>
(0V) <0V>
20 Xout
19 VSS
18 AOUT
17 AIN
16 PD
15 VDD
14 FMIN
13 AMIN
12 MONO
11 IFIN
IC102
LC72131MDTRM
PLL IC (TUNER)
1 Xin
2 CE
3 DI
4 CL
5 DO
6 AM
7 LW
8 SDC
9 STRQ
10 FM
(2.6V) <2.6V>
(0V) <0V>
(0V) <0V>
(0V) <0V>
(5.3V) <5.3V>
(0.2V) <3.7V>
(4V) <3.6V>
(0V) <0V>
(1.1V) <0V>
R137 1K
R136 1K
R135 1K
R134 470
CE
DI
CL
DO

SCHEMATIC DIAGRAM-37

—— : +B signal line ■➡ : AM signal line □⇨ : FM signal line



R104
10K
R109
330
R108
470K
CF202
RLFFETMGD01L
(0V)
<11.7V>
(0V)
<0.7V>
Q102
SC2787LTA
PLIFIER
IF
R121
22K
C120
16V10
Q106
RVTDTA114EST
POWER SUPPLY
SWITCH
(0V)
<0V>
(0V)
<0V>
Q106
(1.7V)
<0V>
R143
22K
C138
0.01
R120
47K
C115
25V4.7
C119
560P
C139
25V4.7
C131
100P
R123
68K
C137
3300P
C118
0.01
C117
0.01
C142
50V1
R142
6.8K
C141
50V1
R141
6.8K
C116
0.033
R102
4.7K
C109
1000P
(4.1V) <3.7V>
(5.6V) <5.7V>
(2.2V) <4.8V>
(2.2V) <2.5V>
(0.8V) <0.4V>
(1.3V) <0V>
(2.6V) <2.7V>
(2.2V) <2.2V>
(2.2V) <2.2V>
(2.1V) <2.1V>
(1.9V) <1.8V>
(1.9V) <1.9V>
OSC OUT
OSC
AFC
AM RF in
AGC
AM OUT
DET OUT
PILOT IN
MPX IN
PILOT OUT
Rch
Lch
IC101
IC101
LA1833MNTLM
IF & MPX IC
(TUNER)
R145
100K
R146
100K
C143
4700P
C144
4700P
FM IF in
AM MIX out
REG
AM IF in
GND
SD
ST
FM DET
Vcc
STR
FM/AM
Mono
(2.2V) <2.2V>
(5.6V) <5.2V>
(2.2V) <2.2V>
(2.2V) <2.2V>
(0V) <<0V>
(5.1V) <5.1V>
(5.3V) <5.3>
(4V) <3V>
(5.6V) <5.2V>
(0V) <0V>
(1.1V) <3.7V>
(3.8V) <3V>
C106
0.01
Z102
RLI2Z021M-T
R124
33
X102
RLFDFT22DD
C122
50V1
C121
50V0.47
C123
50V1
R122
2.7K
R131
68
C129
6.3V100
C148
0.01
C147
1000P
C149
0.1
CN101B
15V
VT
STEREO
SD
7.5V
TO K
DSP CIRCUIT
(CP101)ON
SCHEMATIC
DIAGRAM-41
R126
1.5K
R125
470
R127
470
C124
100P
CN102B
Rch
CE
Lch
DI
DO
CL
TO K
DSP CIRCUIT
(CP102)ON
SCHEMATIC
DIAGRAM-41
R132
10K
R133
1K
SD
STEREO

SCHEMATIC DIAGRAM - 34

For GC/GCS/GT only

For GN only

H TUNER CIRCUIT (FOR GC/GCS/GT/GN ONLY)

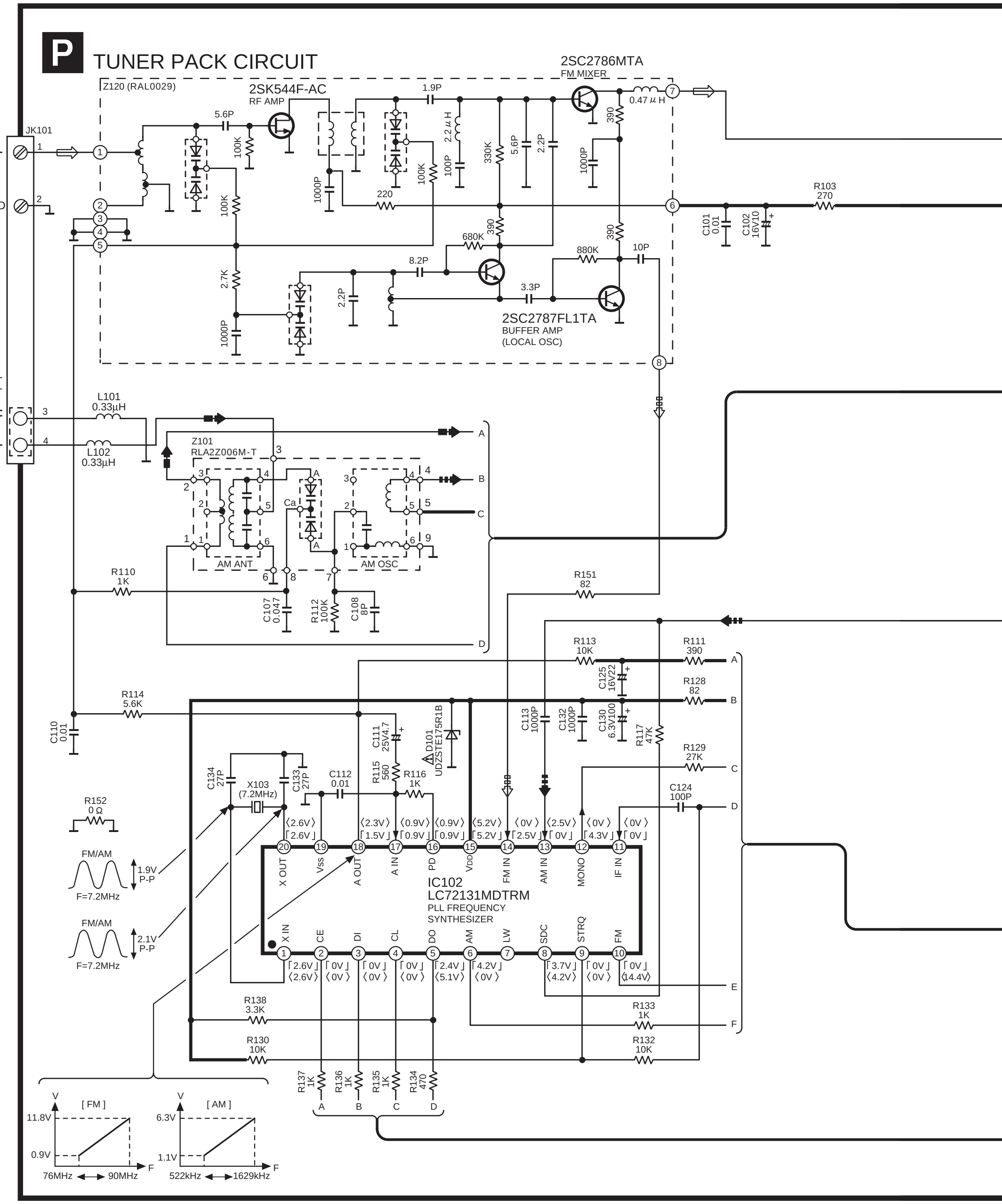
: +B signal line

: FM signal line

: FM OSC signal line

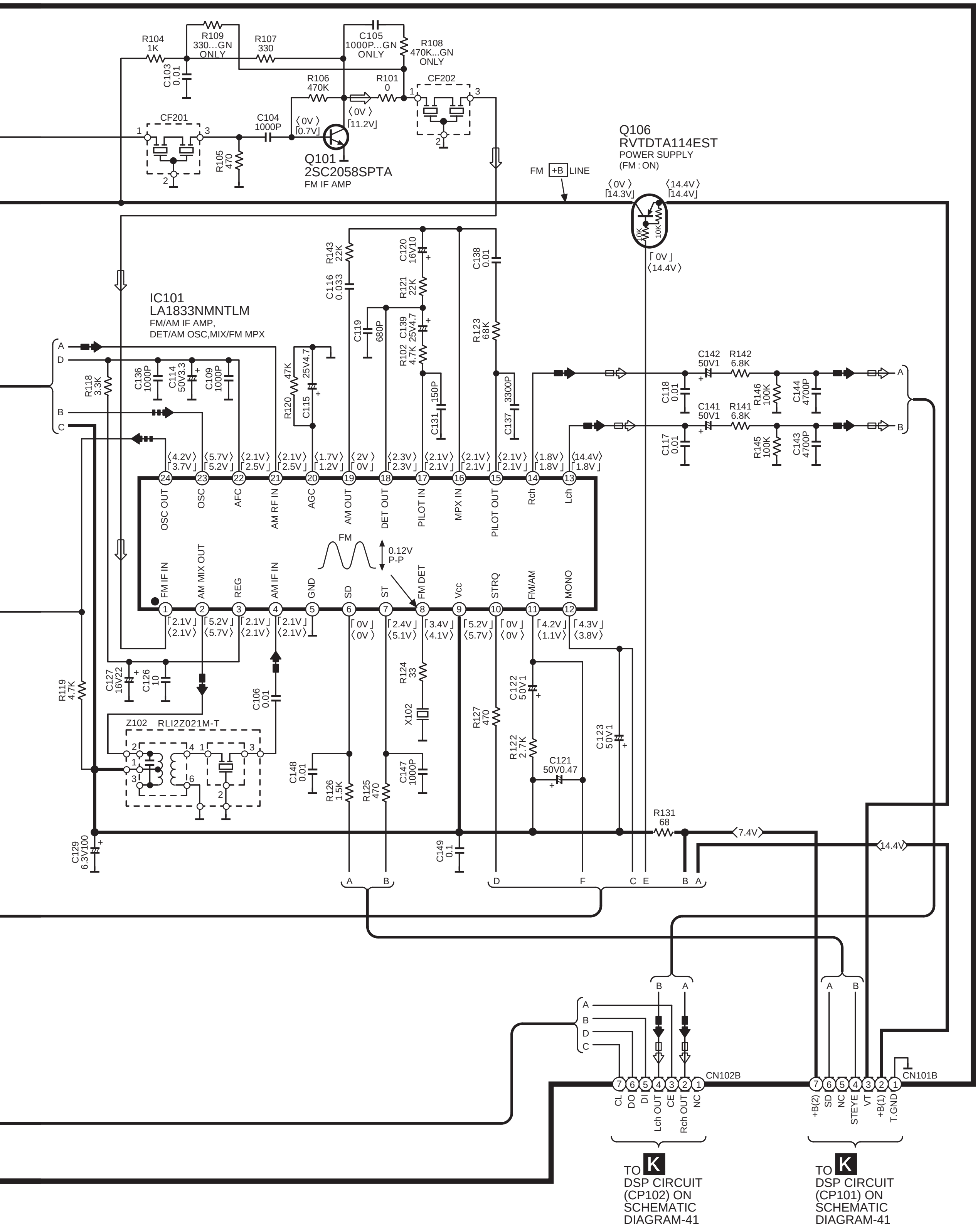
: AM signal line

: AM OSC signal line


P
TUNER PACK CIRCUIT
Z120 (RAL0029)
2SK544F-AC
RF AMP
2SC2786MTA
FM MIXER
2SC2787FL1TA
BUFFER AMP
(LOCAL OSC)
JK101
FM ANT
75 Ω
GND
AM ANT
EXT
LOOP
L101
0.33µH
L102
0.33µH
Z101
RLA2Z006M-T
AM ANT
AM OSC
5.6P
100K
1000P
220
1.9P
2.2µH
100P
330K
5.6P
2.2P
390
0.47µH
1000P
680K
390
880K
10P
8.2P
3.3P
2.2P
2.7K
1000P
100K
R103
270
C101
0.01
C102
16V10
R110
1K
C107
0.047
R112
100K
C108
8P
R151
82
R113
10K
R111
390
C125
16V22
R128
82
R114
5.6K
C110
0.01
C111
25V4.7
D101
UDZSTE175R1B
C113
1000P
C132
1000P
C130
6.3V100
R117
47K
R129
27K
C124
100P
C134
27P
X103
(7.2MHz)
C133
27P
C112
0.01
R115
560
R116
1K
R152
0 Ω
FM/AM
1.9V
P-P
F=7.2MHz
FM/AM
2.1V
P-P
F=7.2MHz
IC102
LC72131MDTRM
PLL FREQUENCY
SYNTHESIZER
X OUT
Vss
A OUT
A IN
PD
VDD
FM IN
AM IN
MONO
IF IN
X IN
CE
DI
CL
DO
AM
LW
SDC
STRQ
FM
〈2.6V〉 「2.6V」
〈2.3V〉 「1.5V」
〈0.9V〉 「0.9V」
〈0.9V〉 「0.9V」
〈5.2V〉 「5.2V」
〈0V〉 「2.5V」
〈2.5V〉 「0V」
〈0V〉 「4.3V」
〈0V〉 「0V」
「2.6V」 〈2.6V〉
「0V」 〈0V〉
「0V」 〈0V〉
「0V」 〈0V〉
「2.4V」 〈5.1V〉
「4.2V」 〈0V〉
「3.7V」 〈4.2V〉
「0V」 〈0V〉
「0V」 〈14.4V〉
R138
3.3K
R130
10K
R133
1K
R132
10K
R137
1K
R136
1K
R135
1K
R134
470
A
B
C
D
E
F
[FM]
V
11.8V
0.9V
76MHz
90MHz
F
[AM]
V
6.3V
1.1V
522kHz
1629kHz
F

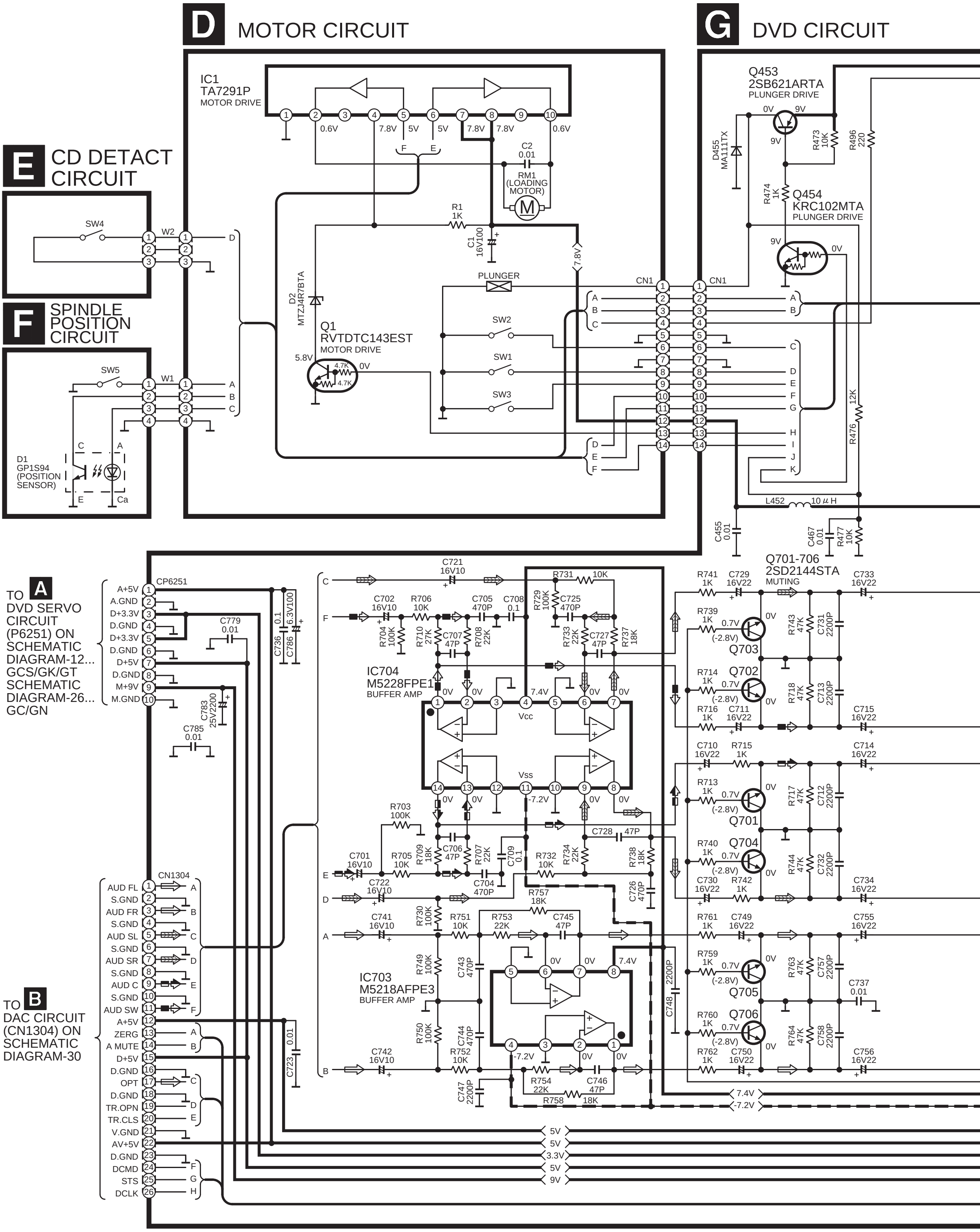
SCHEMATIC DIAGRAM - 35

: +B signal line ▭▷: FM OSC signal line ■➡: AM signal line ■■➡: AM OSC signal line


R104 1K
R109 330...GN ONLY
R107 330
C105 1000P...GN ONLY
R108 470K...GN ONLY
C103 0.01
R106 470K
R101 0
CF202
CF201
C104 1000P
R105 470
〈0V〉 ⌈0.7V⌋
〈0V〉 ⌈11.2V⌋
Q101 2SC2058SPTA FM IF AMP
Q106 RVTDTA114EST POWER SUPPLY (FM : ON)
FM +B LINE
〈0V〉 ⌈14.3V⌋
〈14.4V〉 ⌈14.4V⌋
⌈0V⌋ 〈14.4V〉
10K 10K
IC101 LA1833NMNTLM FM/AM IF AMP, DET/AM OSC,MIX/FM MPX
R143 22K
C116 0.033
C120 16V10
R121 22K
C119 680P
C139 25V4.7
R102 4.7K
C131 150P
C138 0.01
R123 68K
C137 3300P
R118 3.3K
C136 1000P
C114 50V3.3
C109 1000P
R120 47K
C115 25V4.7
C142 50V1
R142 6.8K
C118 0.01
R146 100K
C144 4700P
C141 50V1
R141 6.8K
C117 0.01
R145 100K
C143 4700P
〈4.2V〉 ⌈3.7V⌋
〈5.7V〉 ⌈5.2V⌋
〈2.1V〉 ⌈2.5V⌋
〈2.1V〉 ⌈2.5V⌋
〈1.7V〉 ⌈1.2V⌋
〈2V〉 ⌈0V⌋
〈2.3V〉 ⌈2.3V⌋
〈2.1V〉 ⌈2.1V⌋
〈2.1V〉 ⌈2.1V⌋
〈2.1V〉 ⌈2.1V⌋
〈1.8V〉 ⌈1.8V⌋
〈14.4V〉 ⌈1.8V⌋
24 OSC OUT
23 OSC
22 AFC
21 AM RF IN
20 AGC
19 AM OUT
18 DET OUT
17 PILOT IN
16 MPX IN
15 PILOT OUT
14 Rch
13 Lch
FM 0.12V P-P
1 FM IF IN
2 AM MIX OUT
3 REG
4 AM IF IN
5 GND
6 SD
7 ST
8 FM DET
9 Vcc
10 STRQ
11 FM/AM
12 MONO
⌈2.1V⌋ 〈2.1V〉
⌈5.2V⌋ 〈5.7V〉
⌈2.1V⌋ 〈2.1V〉
⌈2.1V⌋ 〈2.1V〉
⌈0V⌋ 〈0V〉
⌈2.4V⌋ 〈5.1V〉
⌈3.4V⌋ 〈4.1V〉
⌈5.2V⌋ 〈5.7V〉
⌈0V⌋ 〈0V〉
⌈4.2V⌋ 〈1.1V〉
⌈4.3V⌋ 〈3.8V〉
R119 4.7K
C127 16V22
C126 10
C106 0.01
Z102 RLI2Z021M-T
R124 33
X102
R127 470
C122 50V1
R122 2.7K
C121 50V0.47
C123 50V1
C148 0.01
R126 1.5K
R125 470
C147 1000P
C129 6.3V100
C149 0.1
R131 68
〈7.4V〉
〈14.4V〉
A B D F C E B A
CN102B
7 CL
6 DO
5 DI
4 Lch OUT
3 CE
2 Rch OUT
1 NC
CN101B
7 +B(2)
6 SD
5 NC
4 STEYE
3 VT
2 +B(1)
1 T.GND
TO K DSP CIRCUIT (CP102) ON SCHEMATIC DIAGRAM-41
TO K DSP CIRCUIT (CP101) ON SCHEMATIC DIAGRAM-41

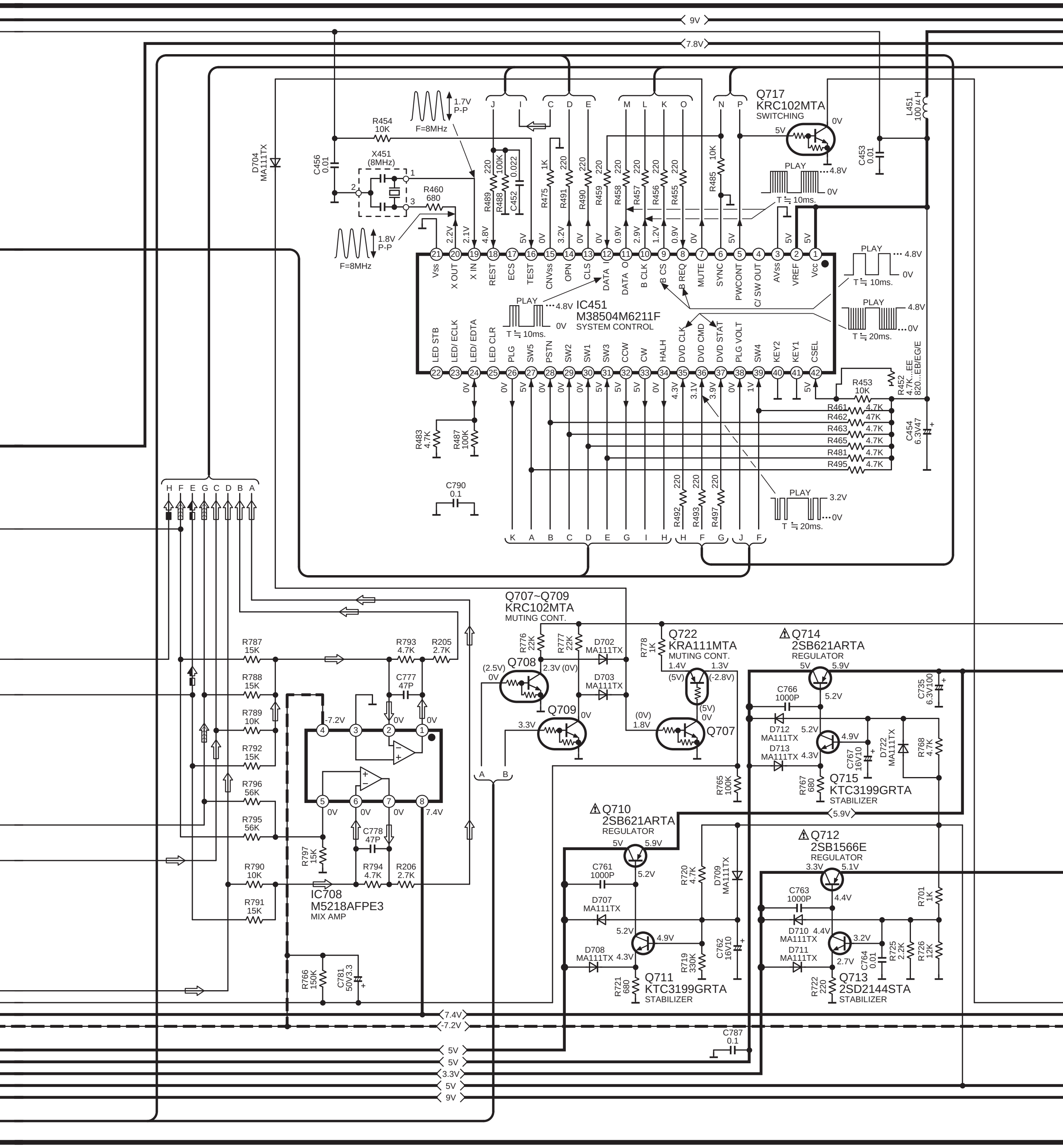
SCHEMATIC DIAGRAM - 31

━━ : +B signal line
━ ━ : -B signal line
⇨ : Audio signal line
⇨ : Surround speaker signal line
■⇨ : Center speaker signal line
■⇨ : Subwoofer speaker signal line


D MOTOR CIRCUIT
G DVD CIRCUIT
E CD DETACT CIRCUIT
F SPINDLE POSITION CIRCUIT
IC1 TA7291P MOTOR DRIVE
0.6V
7.8V
5V
5V
7.8V
7.8V
0.6V
C2 0.01
RM1 (LOADING MOTOR)
M
R1 1K
C1 16V100
7.8V
PLUNGER
D2 MTZJ4R7BTA
Q1 RVTDTC143EST MOTOR DRIVE
5.8V
4.7K
4.7K
0V
SW2
SW1
SW3
CN1
SW4
W2
SW5
W1
D1 GP1S94 (POSITION SENSOR)
C
A
E
Ca
Q453 2SB621ARTA PLUNGER DRIVE
0V
9V
9V
D455 MA111TX
R473 10K
R496 220
R474 1K
Q454 KRC102MTA PLUNGER DRIVE
9V
0V
R476 12K
L452 10μH
C455 0.01
C467 0.01
R477 10K
Q701-706 2SD2144STA MUTING
TO A DVD SERVO CIRCUIT (P6251) ON SCHEMATIC DIAGRAM-12... GCS/GK/GT SCHEMATIC DIAGRAM-26... GC/GN
CP6251
A+5V
A.GND
D+3.3V
D.GND
D+3.3V
D.GND
D+5V
D.GND
M+9V
M.GND
C779 0.01
C736 0.1
C786 6.3V100
C783 25V2200
C785 0.01
C721 16V10
C702 16V10
R706 10K
C705 470P
C708 0.1
R729 100K
R731 10K
C725 470P
R704 100K
R710 27K
C707 47P
R708 22K
R733 22K
C727 47P
R737 18K
IC704 M5228FPE1 BUFFER AMP
Vcc
Vss
7.4V
-7.2V
R703 100K
C701 16V10
R705 10K
R709 18K
C706 47P
R707 22K
C709 0.1
R732 10K
R734 22K
C728 47P
R738 18K
C722 16V10
C704 470P
C726 470P
R757 18K
C741 16V10
R730 100K
R751 10K
R753 22K
C745 47P
R749 100K
C743 470P
IC703 M5218AFPE3 BUFFER AMP
C748 2200P
R750 100K
C744 470P
C742 16V10
R752 10K
C747 2200P
R754 22K
C746 47P
R758 18K
TO B DAC CIRCUIT (CN1304) ON SCHEMATIC DIAGRAM-30
CN1304
AUD FL
S.GND
AUD FR
S.GND
AUD SL
S.GND
AUD SR
S.GND
AUD C
S.GND
AUD SW
A+5V
ZERG
A MUTE
D+5V
D.GND
OPT
D.GND
TR.OPN
TR.CLS
V.GND
AV+5V
D.GND
DCMD
STS
DCLK
C723 0.01
R741 1K
C729 16V22
C733 16V22
R739 1K
0.7V
(-2.8V)
Q703
R743 47K
C731 2200P
R714 1K
Q702
R718 47K
C713 2200P
R716 1K
C711 16V22
C715 16V22
C710 16V22
R715 1K
C714 16V22
R713 1K
Q701
R717 47K
C712 2200P
R740 1K
Q704
R744 47K
C732 2200P
C730 16V22
R742 1K
C734 16V22
R761 1K
C749 16V22
C755 16V22
R759 1K
Q705
R763 47K
C757 2200P
C737 0.01
R760 1K
Q706
R764 47K
C758 2200P
R762 1K
C750 16V22
C756 16V22
7.4V
-7.2V
5V
5V
3.3V
5V
9V

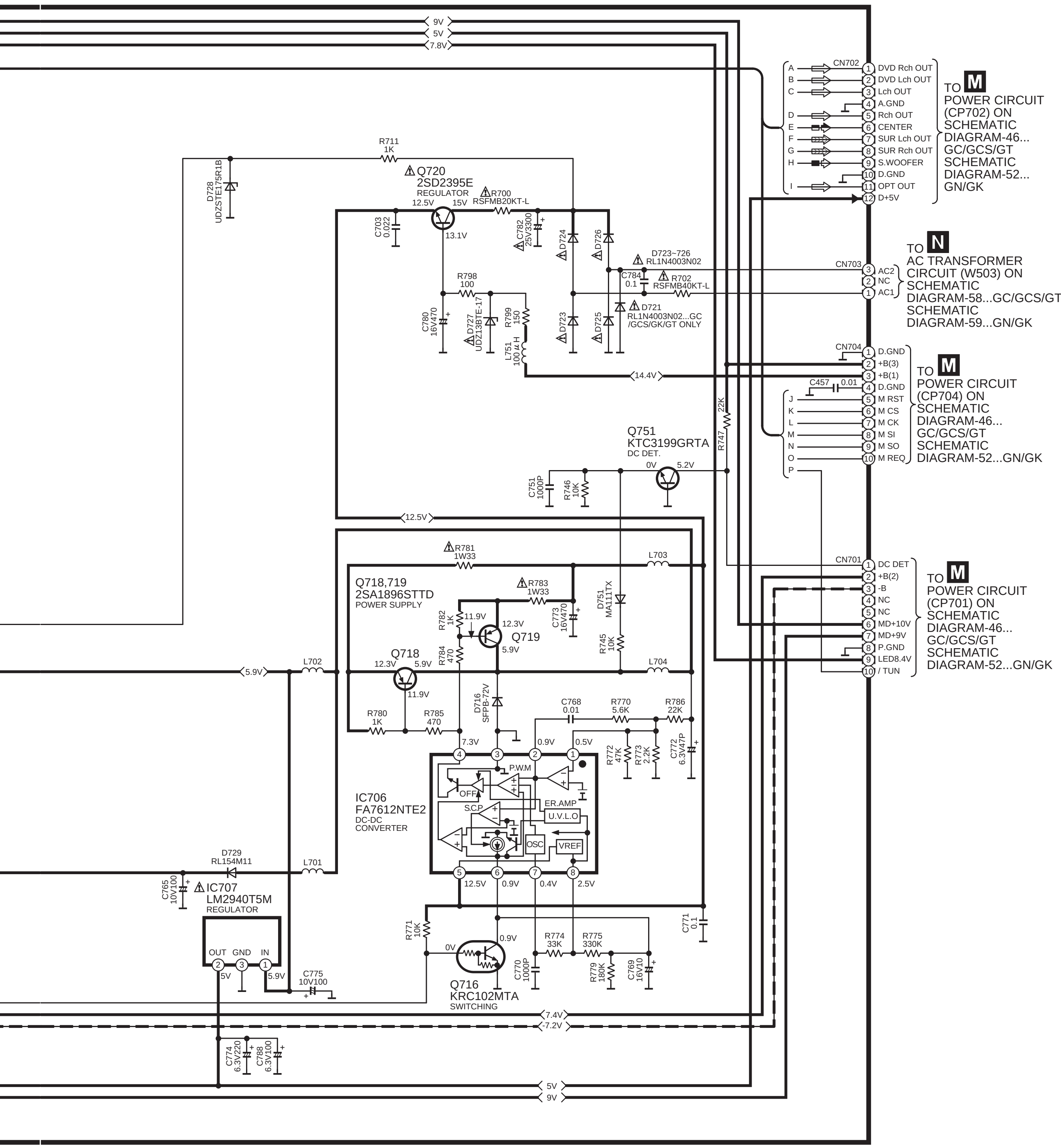
SCHEMATIC DIAGRAM - 32

— : +B signal line
- - : -B signal line
⇨ : Audio signal line
⇨ : Surround speaker signal line
⇨ : Center speaker signal line
⇨ : Subwoofer speaker signal line


9V
7.8V
J I C D E M L K O N P
Q717
KRC102MTA
SWITCHING
5V
0V
4.8V
PLAY
0V
T ≒ 10ms.
L451
100μH
C453
0.01
1.7V
P-P
F=8MHz
R454
10K
C456
0.01
X451
(8MHz)
R460
680
D704
MA111TX
1.8V
P-P
F=8MHz
R489 220
R488 100K
C452 0.022
R475 1K
R491 220
R490 220
R459 220
R458 220
R457 220
R456 220
R455 220
R485 10K
2.2V 2.1V 4.8V 5V 0V 3.2V 0V 0V 0.9V 2.9V 1.2V 0.9V 0V 5V 5V 5V
Vss X OUT X IN REST ECS TEST CNVss OPN CLS DATA I DATA O B CLK B CS B REQ MUTE SYNC PWCONT C/ SW OUT AVss VREF Vcc
IC451
M38504M6211F
SYSTEM CONTROL
PLAY
4.8V
0V
T ≒ 10ms.
PLAY
4.8V
0V
T ≒ 10ms.
PLAY
4.8V
0V
T ≒ 20ms.
LED STB LED/ ECLK LED/ EDTA LED CLR PLG SW5 PSTN SW2 SW1 SW3 CCW CW HALH DVD CLK DVD CMD DVD STAT PLG VOLT SW4 KEY2 KEY1 CSEL
0V 0V 5V 0V 0V 0V 5V 5V 5V 0V 4.3V 3.1V 3.9V 0V 1V 5V
R453
10K
R452
4.7K...EE
820...EB/EG/E
R461 4.7K
R462 47K
R463 4.7K
R465 4.7K
R481 4.7K
R495 4.7K
C454
6.3V47
R483
4.7K
R487
100K
C790
0.1
R492 220
R493 220
R497 220
PLAY
3.2V
0V
T ≒ 20ms.
K A B C D E G I H H F G J F
H F E G C D B A
R787
15K
R788
15K
R789
10K
R792
15K
R796
56K
R795
56K
R797
15K
R790
10K
R791
15K
R793
4.7K
R205
2.7K
C777
47P
-7.2V
0V
0V
0V 0V 0V 7.4V
C778
47P
R794
4.7K
R206
2.7K
IC708
M5218AFPE3
MIX AMP
R766
150K
C781
50V3.3
Q707~Q709
KRC102MTA
MUTING CONT.
R776
22K
R777
22K
D702
MA111TX
D703
MA111TX
(2.5V)
0V
Q708
2.3V (0V)
Q709
0V
3.3V
(0V)
1.8V
Q707
A B
R778
1K
Q722
KRA111MTA
MUTING CONT.
1.4V 1.3V
(5V) (-2.8V)
(5V)
0V
R765
100K
⚠Q714
2SB621ARTA
REGULATOR
5V 5.9V
C766
1000P
5.2V
C735
6.3V100
D712
MA111TX
D713
MA111TX
5.2V
4.9V
4.3V
C767
16V10
D722
MA111TX
R768
4.7K
R767
680
Q715
KTC3199GRTA
STABILIZER
5.9V
⚠Q710
2SB621ARTA
REGULATOR
5V 5.9V
C761
1000P
5.2V
D707
MA111TX
R720
4.7K
D709
MA111TX
5.2V
4.9V
D708
MA111TX
4.3V
R719
330K
C762
16V10
R721
680
Q711
KTC3199GRTA
STABILIZER
⚠Q712
2SB1566E
REGULATOR
3.3V 5.1V
C763
1000P
4.4V
R701
1K
D710
MA111TX
4.4V
D711
MA111TX
3.2V
2.7V
C764
0.01
R725
2.2K
R726
12K
R722
220
Q713
2SD2144STA
STABILIZER
7.4V
-7.2V
C787
0.1
5V
5V
3.3V
5V
9V

SCHEMATIC DIAGRAM - 33

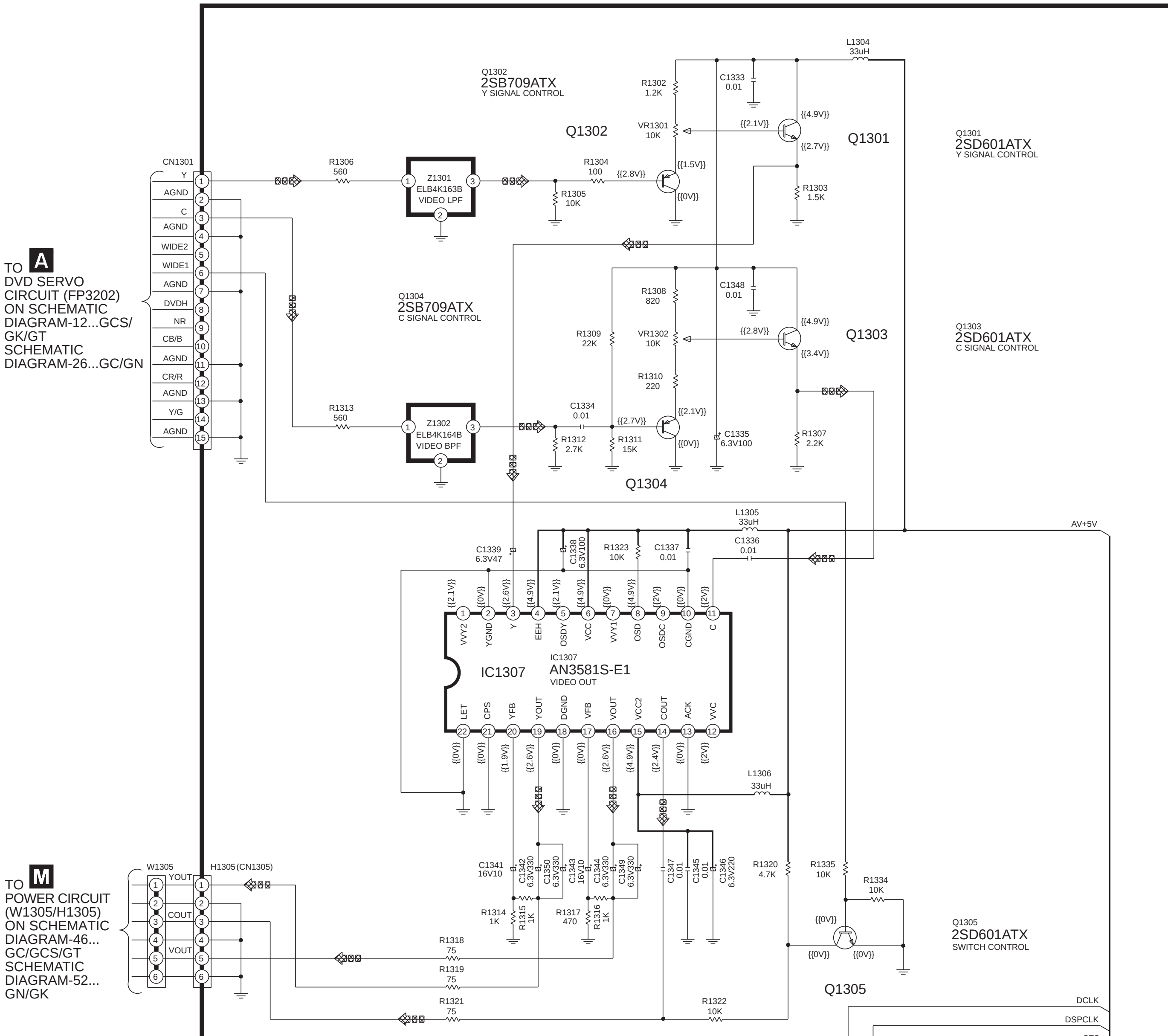
━━ : +B signal line
━ ━ : -B signal line
⇨ : Audio signal line
⇨ : Surround speaker signal line
■⇨ : Center speaker signal line
■⇨ : Subwoofer speaker signal line

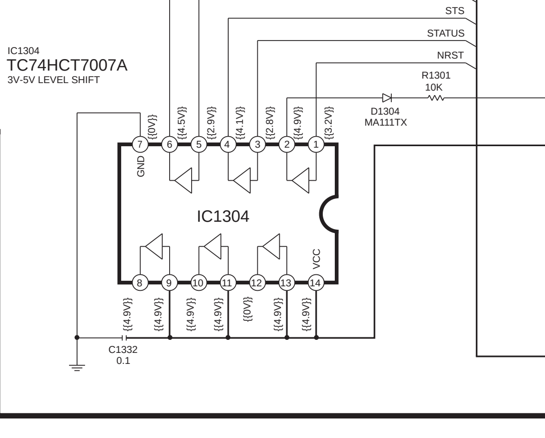

9V
5V
7.8V
CN702
A
B
C
D
E
F
G
H
I
1 DVD Rch OUT
2 DVD Lch OUT
3 Lch OUT
4 A.GND
5 Rch OUT
6 CENTER
7 SUR Lch OUT
8 SUR Rch OUT
9 S.WOOFER
10 D.GND
11 OPT OUT
12 D+5V
TO M
POWER CIRCUIT (CP702) ON SCHEMATIC DIAGRAM-46... GC/GCS/GT SCHEMATIC DIAGRAM-52... GN/GK
R711 1K
D728 UDZSTE175R1B
Q720 2SD2395E REGULATOR
12.5V
15V
13.1V
R700 RSFMB20KT-L
C703 0.022
C782 25V3300
D724
D726
D723~726 RL1N4003N02
CN703
3 AC2
2 NC
1 AC1
TO N
AC TRANSFORMER CIRCUIT (W503) ON SCHEMATIC DIAGRAM-58...GC/GCS/GT SCHEMATIC DIAGRAM-59...GN/GK
C784 0.1
R702 RSFMB40KT-L
R798 100
D721 RL1N4003N02...GC /GCS/GK/GT ONLY
C780 16V470
D727 UDZ13BTE-17
R799 150
L751 100 μH
D723
D725
14.4V
CN704
1 D.GND
2 +B(3)
3 +B(1)
4 D.GND
5 M RST
6 M CS
7 M CK
8 M SI
9 M SO
10 M REQ
C457 0.01
J
K
L
M
N
O
P
TO M
POWER CIRCUIT (CP704) ON SCHEMATIC DIAGRAM-46... GC/GCS/GT SCHEMATIC DIAGRAM-52...GN/GK
R747 22K
Q751 KTC3199GRTA DC DET.
0V
5.2V
C751 1000P
R746 10K
12.5V
CN701
1 DC DET
2 +B(2)
3 -B
4 NC
5 NC
6 MD+10V
7 MD+9V
8 P.GND
9 LED8.4V
10 / TUN
TO M
POWER CIRCUIT (CP701) ON SCHEMATIC DIAGRAM-46... GC/GCS/GT SCHEMATIC DIAGRAM-52...GN/GK
R781 1W33
L703
Q718,719 2SA1896STTD POWER SUPPLY
R783 1W33
D751 MA111TX
R782 1K
11.9V
12.3V
Q719
5.9V
C773 16V470
R745 10K
R784 470
Q718
12.3V
5.9V
11.9V
5.9V
L702
L704
D716 SFPB-72V
C768 0.01
R770 5.6K
R786 22K
R780 1K
R785 470
7.3V
0.9V
0.5V
R772 47K
R773 2.2K
C772 6.3V47P
IC706 FA7612NTE2 DC-DC CONVERTER
P.W.M
OFF
S.C.P
ER.AMP
U.V.L.O
OSC
VREF
4
3
2
1
5
6
7
8
12.5V
0.9V
0.4V
2.5V
D729 RL154M11
L701
C765 10V100
IC707 LM2940T5M REGULATOR
OUT GND IN
2 3 1
5V
5.9V
C775 10V100
R771 10K
0V
0.9V
Q716 KRC102MTA SWITCHING
C770 1000P
R774 33K
R775 330K
R779 180K
C769 16V10
C771 0.1
7.4V
-7.2V
C774 6.3V220
C788 6.3V100
5V
9V

B DAC CIRCUIT

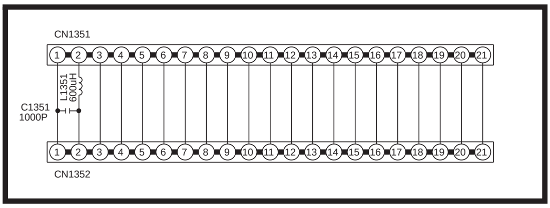
: +B signal line

: DVD Video signal Line


CN1301
Y
AGND
C
AGND
WIDE2
WIDE1
AGND
DVDH
NR
CB/B
AGND
CR/R
AGND
Y/G
AGND
TO A
DVD SERVO
CIRCUIT (FP3202)
ON SCHEMATIC
DIAGRAM-12...GCS/
GK/GT
SCHEMATIC
DIAGRAM-26...GC/GN
R1306
560
Z1301
ELB4K163B
VIDEO LPF
Q1302
2SB709ATX
Y SIGNAL CONTROL
Q1302
R1304
100
{{2.8V}}
R1305
10K
{{1.5V}}
{{0V}}
R1302
1.2K
VR1301
10K
C1333
0.01
L1304
33uH
{{2.1V}}
{{4.9V}}
{{2.7V}}
Q1301
Q1301
2SD601ATX
Y SIGNAL CONTROL
R1303
1.5K
Q1304
2SB709ATX
C SIGNAL CONTROL
R1308
820
C1348
0.01
R1309
22K
VR1302
10K
{{2.8V}}
{{4.9V}}
{{3.4V}}
Q1303
Q1303
2SD601ATX
C SIGNAL CONTROL
R1310
220
{{2.1V}}
R1313
560
Z1302
ELB4K164B
VIDEO BPF
C1334
0.01
{{2.7V}}
R1312
2.7K
R1311
15K
{{0V}}
C1335
6.3V100
R1307
2.2K
Q1304
L1305
33uH
C1336
0.01
AV+5V
C1339
6.3V47
C1338
6.3V100
R1323
10K
C1337
0.01
{{2.1V}}
{{0V}}
{{2.6V}}
{{4.9V}}
{{2.1V}}
{{4.9V}}
{{0V}}
{{4.9V}}
{{2V}}
{{0V}}
{{2V}}
VVY2
YGND
Y
EEH
OSDY
VCC
VVY1
OSD
OSDC
CGND
C
IC1307
IC1307
AN3581S-E1
VIDEO OUT
LET
CPS
YFB
YOUT
DGND
VFB
VOUT
VCC2
COUT
ACK
VVC
{{0V}}
{{0V}}
{{1.9V}}
{{2.6V}}
{{0V}}
{{0V}}
{{2.6V}}
{{4.9V}}
{{2.4V}}
{{0V}}
{{2V}}
L1306
33uH
C1341
16V10
C1342
6.3V330
C1350
6.3V330
C1343
16V10
C1344
6.3V330
C1349
6.3V330
C1347
0.01
C1345
0.01
C1346
6.3V220
R1320
4.7K
R1335
10K
R1334
10K
R1314
1K
R1315
1K
R1317
470
R1316
1K
{{0V}}
{{0V}}
{{0V}}
Q1305
2SD601ATX
SWITCH CONTROL
Q1305
W1305
H1305(CN1305)
YOUT
COUT
VOUT
TO M
POWER CIRCUIT
(W1305/H1305)
ON SCHEMATIC
DIAGRAM-46...
GC/GCS/GT
SCHEMATIC
DIAGRAM-52...
GN/GK
R1318
75
R1319
75
R1321
75
R1322
10K

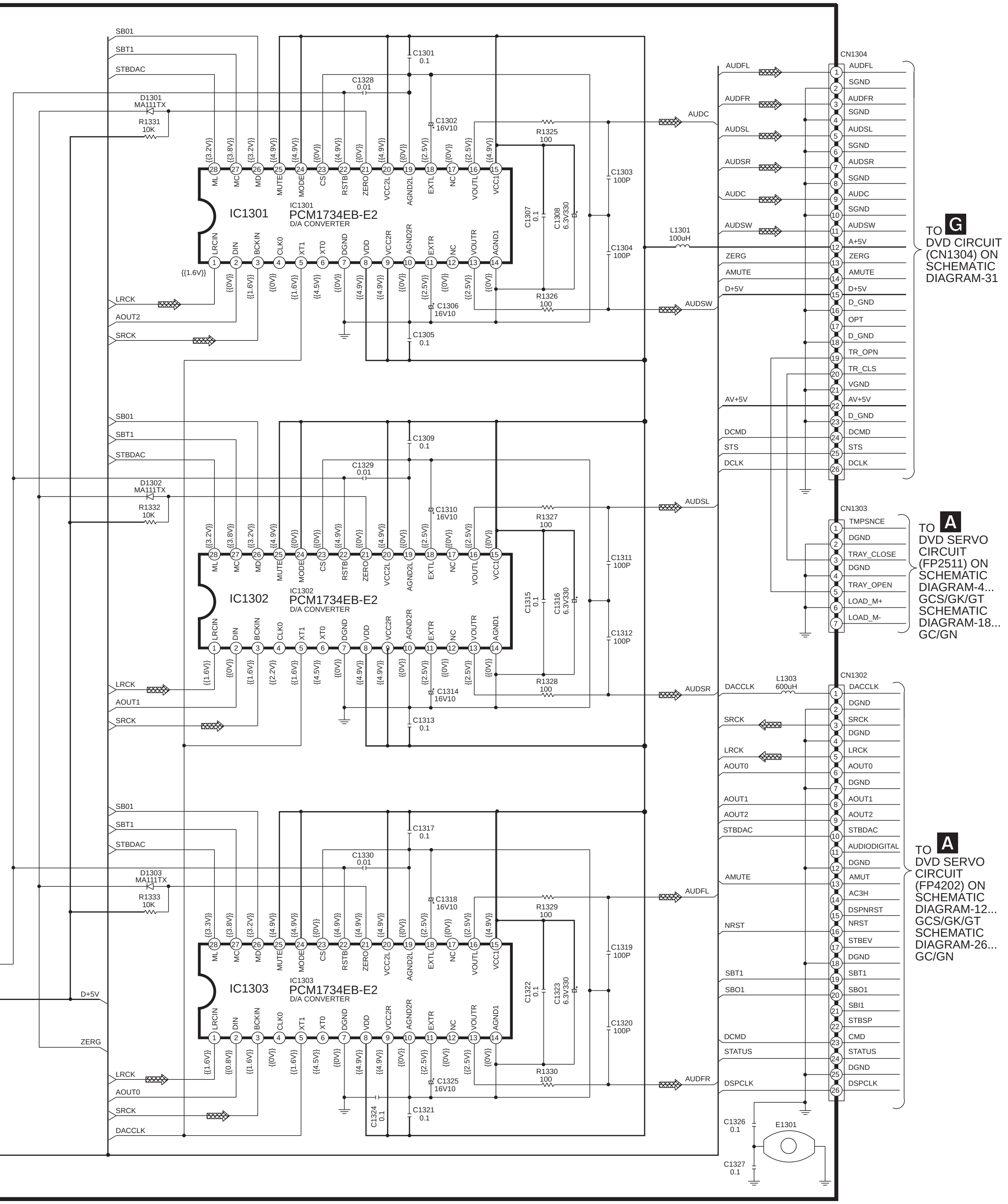

DCLK
DSPCLK
STS
STATUS
NRST
IC1304
TC74HCT7007A
3V-5V LEVEL SHIFT
R1301
10K
D1304
MA111TX
{{0V}}
{{4.5V}}
{{2.9V}}
{{4.1V}}
{{2.8V}}
{{4.9V}}
{{3.2V}}
GND
IC1304
VCC
{{4.9V}}
{{4.9V}}
{{4.9V}}
{{4.9V}}
{{0V}}
{{4.9V}}
{{4.9V}}
C1332
0.1

C CONNECTOR CIRCUIT

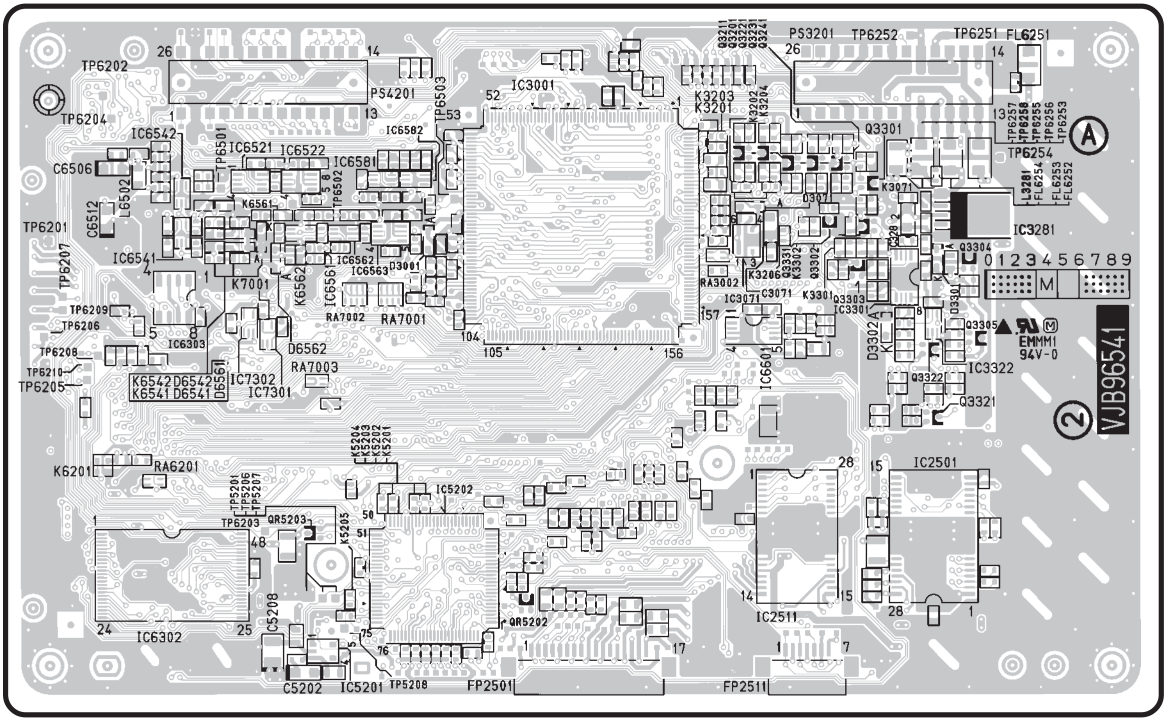

CN1351
L1351
600uH
C1351
1000P
CN1352

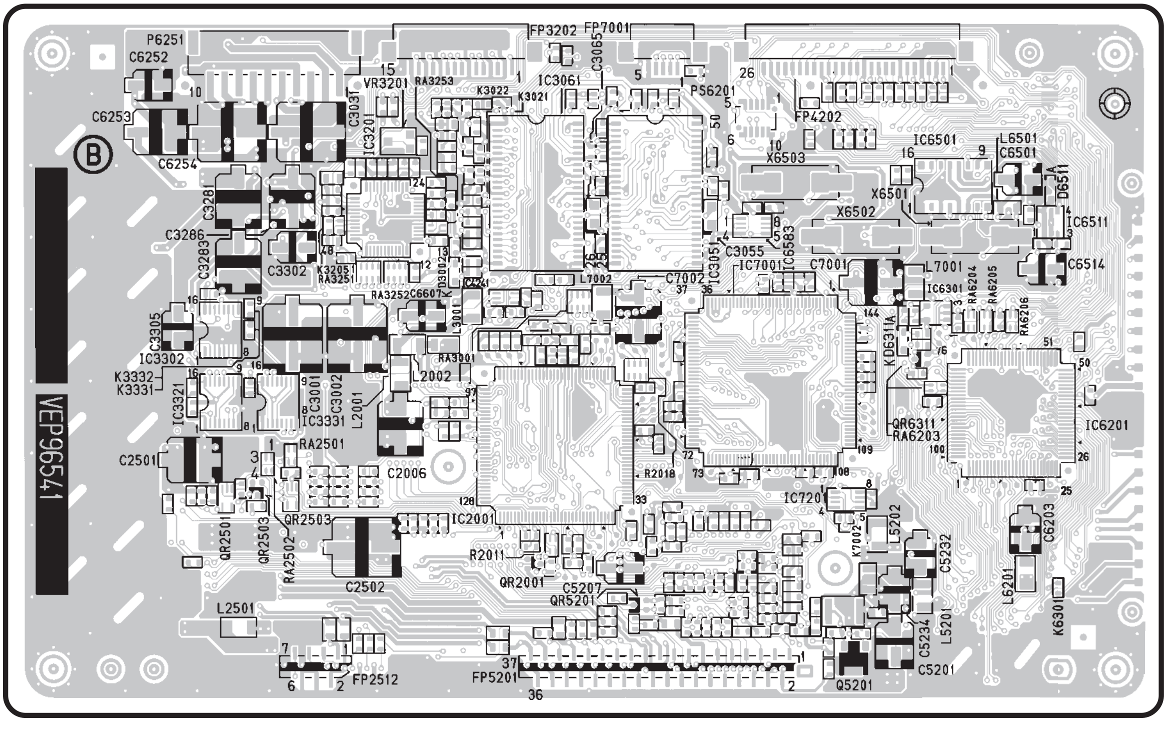
SCHEMATIC DIAGRAM - 30

━━ : +B signal line   ⇨ : DVD Video signal Line


IC1301
PCM1734EB-E2
D/A CONVERTER
IC1302
PCM1734EB-E2
D/A CONVERTER
IC1303
PCM1734EB-E2
D/A CONVERTER
ML
MC
MD
MUTE
MODE
CS
RSTB
ZERO
VCC2L
AGND2L
EXTL
NC
VOUTL
VCC1
LRCIN
DIN
BCKIN
CLK0
XT1
XT0
DGND
VDD
VCC2R
AGND2R
EXTR
VOUTR
AGND1
SB01
SBT1
STBDAC
LRCK
AOUT2
AOUT1
AOUT0
SRCK
DACCLK
D+5V
ZERG
D1301
MA111TX
D1302
MA111TX
D1303
MA111TX
R1331
10K
R1332
10K
R1333
10K
C1301
0.1
C1328
0.01
C1302
16V10
R1325
100
C1303
100P
C1307
0.1
C1308
6.3V330
C1304
100P
R1326
100
C1306
16V10
C1305
0.1
C1309
0.1
C1329
0.01
C1310
16V10
R1327
100
C1311
100P
C1315
0.1
C1316
6.3V330
C1312
100P
R1328
100
C1314
16V10
C1313
0.1
C1317
0.1
C1330
0.01
C1318
16V10
R1329
100
C1319
100P
C1322
0.1
C1323
6.3V330
C1320
100P
R1330
100
C1325
16V10
C1324
0.1
C1321
0.1
L1301
100uH
L1303
600uH
C1326
0.1
C1327
0.1
E1301
AUDC
AUDSW
AUDSL
AUDSR
AUDFL
AUDFR
CN1304
AUDFL
SGND
AUDFR
AUDSL
AUDSR
AUDC
AUDSW
A+5V
ZERG
AMUTE
D+5V
D_GND
OPT
TR_OPN
TR_CLS
VGND
AV+5V
DCMD
STS
DCLK
TO G
DVD CIRCUIT
(CN1304) ON
SCHEMATIC
DIAGRAM-31
CN1303
TMPSNCE
DGND
TRAY_CLOSE
TRAY_OPEN
LOAD_M+
LOAD_M-
TO A
DVD SERVO
CIRCUIT
(FP2511) ON
SCHEMATIC
DIAGRAM-4...
GCS/GK/GT
SCHEMATIC
DIAGRAM-18...
GC/GN
CN1302
DACCLK
DGND
SRCK
LRCK
AOUT0
AOUT1
AOUT2
STBDAC
AUDIODIGITAL
AMUT
AMUTE
AC3H
DSPNRST
NRST
STBEV
SBT1
SBO1
SBI1
STBSP
CMD
DCMD
STATUS
DSPCLK
TO A
DVD SERVO
CIRCUIT
(FP4202) ON
SCHEMATIC
DIAGRAM-12...
GCS/GK/GT
SCHEMATIC
DIAGRAM-26...
GC/GN

A DVD SERVO P.C.B (DPT-3BEE-AD...GC/GN)
(DPT-3EEMU-AD...GCS/GT/GK)

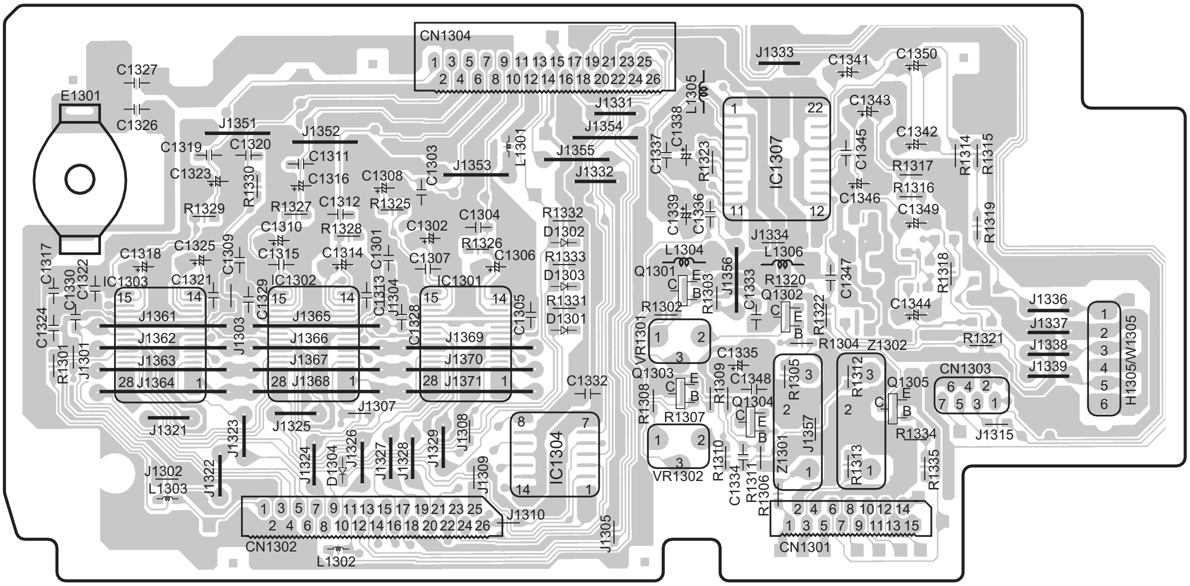

A
B
C
D
E
F
G
1
2
3
4
5
TP6202
TP6204
PS4201
TP6503
IC3001
PS3201
TP6252
TP6251
FL6251
Q3301
IC6542
C6506
IC6521
IC6522
IC6581
IC6582
TP6501
TP6502
K6561
TP6201
C6512
L6502
TP6207
IC6541
K7001
K6562
IC6561
IC6562
IC6563
D3001
RA7002
RA7001
TP6209
TP6206
TP6208
TP6210
TP6205
IC6303
D6562
RA7003
K6542
D6542
K6541
D6541
D6561
IC7302
IC7301
K3203
K3201
K3202
K3204
K3071
IC3281
L3281
FL6254
FL6253
FL6252
TP6254
TP6257
TP6258
TP6255
TP6256
TP6253
Q3304
0 1 2 3 4 5 6 7 8 9
M
RA3002
K3206
Q3331
K3302
Q3302
IC3071
C3071
K3301
IC3301
Q3303
D3302
D3301
Q3305
EMMM1
94V-0
IC6601
IC3322
Q3322
Q3321
VJB96541
K6201
RA6201
TP5201
TP5206
TP5207
K5204
K5203
K5202
K5201
IC5202
TP6203
QR5203
K5205
IC2511
IC2501
IC6302
C5208
QR5202
C5202
IC5201
TP5208
FP2501
FP2511


6
7
8
9
P6251
C6252
C6253
C6254
VR3201
RA3253
K3022
K3021
IC3061
C3065
FP3202
FP7001
PS6201
FP4202
IC6501
L6501
C6501
X6503
X6501
X6502
D6511
IC6511
C6514
C3031
IC3201
C3281
C3286
C3283
C3302
K3205
RA3251
RA3252
C6607
D3002
L7002
C7002
IC3051
IC6583
C3055
IC7001
C7001
L7001
IC6301
RA6204
RA6205
RA6206
C3305
IC3302
K3332
K3331
IC3321
C3001
C3002
IC3331
L2001
L2002
RA3001
KD6311A
QR6311
RA6203
IC6201
C2501
RA2501
C2006
R2018
IC7201
K7002
L5202
C5232
C6203
QR2501
QR2503
RA2502
C2502
IC2001
R2011
QR2001
C5207
QR5201
L6201
K6301
L2501
FP2512
FP5201
C5234
L5201
C5201
Q5201
VEP96541

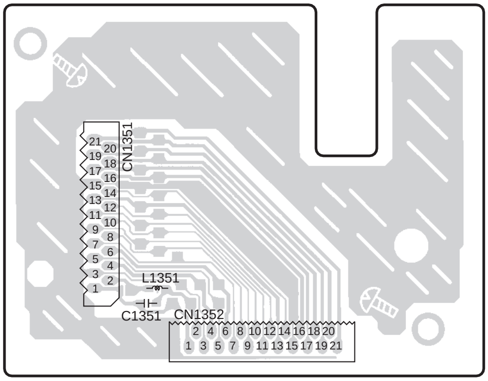
A B C D E F G

1 2 3 4 5 6 7 8 9

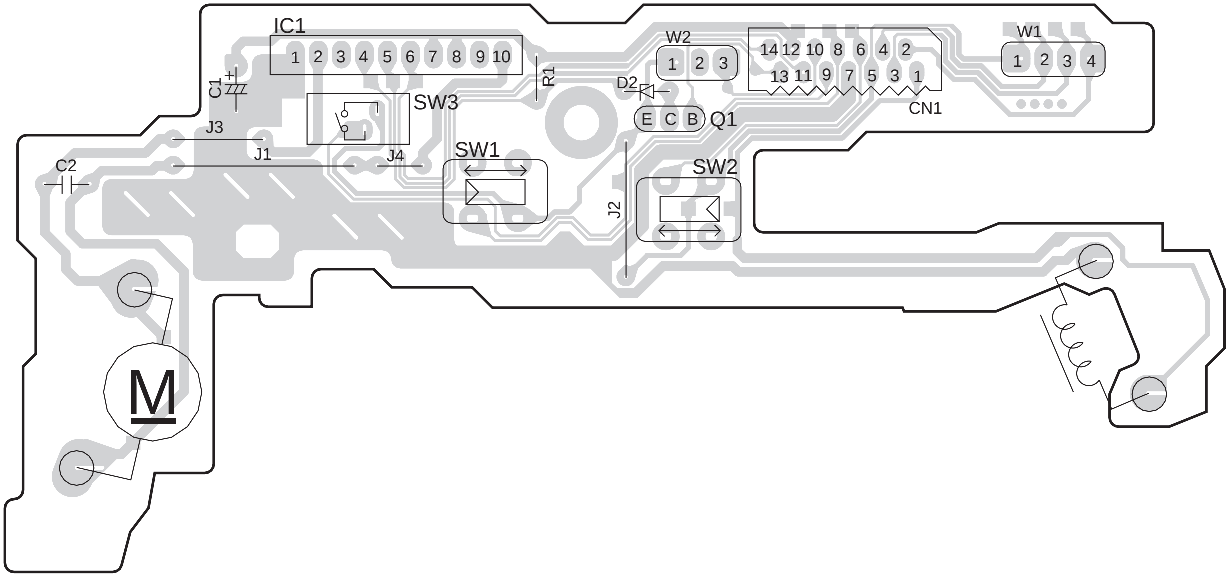
B DAC P.C.B (REP2832D)


CN1304
1 3 5 7 9 11 13 15 17 19 21 23 25
2 4 6 8 10 12 14 16 18 20 22 24 26
E1301
C1327
C1326
J1351
C1319
C1320
J1352
C1311
C1323
R1330
C1316
C1308
C1303
J1353
L1301
J1331
J1354
J1355
J1332
L1305
C1338
C1337
R1323
IC1307
1
22
11
12
J1333
C1341
C1350
C1343
C1345
C1342
R1317
R1314
R1315
R1316
C1346
C1349
R1319
R1329
R1327
C1312
R1325
C1310
R1328
C1302
C1304
R1332
D1302
C1339
C1336
J1334
R1326
R1333
C1306
D1303
C1318
C1325
C1309
C1315
C1314
C1301
C1307
IC1301
L1304
L1306
R1318
C1317
C1330
C1322
IC1303
C1321
C1329
IC1302
C1313
J1304
Q1301
R1303
J1356
C1333
R1320
Q1302
C1347
C1344
C1324
15
14
J1361
J1362
J1363
28 J1364 1
J1303
15
14
J1365
J1366
J1367
28 J1368 1
C1328
15
14
J1369
J1370
28 J1371 1
C1305
R1331
D1301
R1302
VR1301
1 2 3
C E B
R1322
R1304
Z1302
J1336
J1337
J1338
J1339
R1321
1 2 3 4 5 6
H1305/W1305
R1301
J1301
Q1303
C1335
C1348
R1309
R1305
R1312
Q1305
CN1303
6 4 2
7 5 3 1
R1308
R1307
Q1304
J1357
R1334
J1315
J1321
J1325
J1307
J1323
C1332
8
7
IC1304
14
1
VR1302
R1310
Z1301
R1313
R1335
J1302
L1303
J1322
J1324
D1304
J1326
J1327
J1328
J1329
J1308
J1309
C1334
R1311
R1306
1 3 5 7 9 11 13 15 17 19 21 23 25
2 4 6 8 10 12 14 16 18 20 22 24 26
CN1302
J1310
L1302
J1305
2 4 6 8 10 12 14
1 3 5 7 9 11 13 15
CN1301

C CONNECTOR P.C.B (REP2832D)

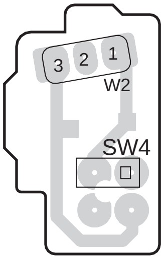

CN1351
21 19 17 15 13 11 9 7 5 3 1
20 18 16 14 12 10 8 6 4 2
L1351
C1351
CN1352
2 4 6 8 10 12 14 16 18 20
1 3 5 7 9 11 13 15 17 19 21

D MOTOR P.C.B (REP2578A-N)

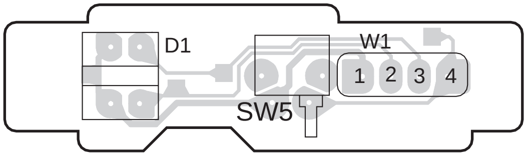


IC1
1 2 3 4 5 6 7 8 9 10
C1
SW3
R1
D2
W2
1 2 3
14 12 10 8 6 4 2
13 11 9 7 5 3 1
CN1
W1
1 2 3 4
E C B
Q1
J3
J1
J4
C2
SW1
SW2
J2
M

E CD DETACT P.C.B (REP2578A-N)

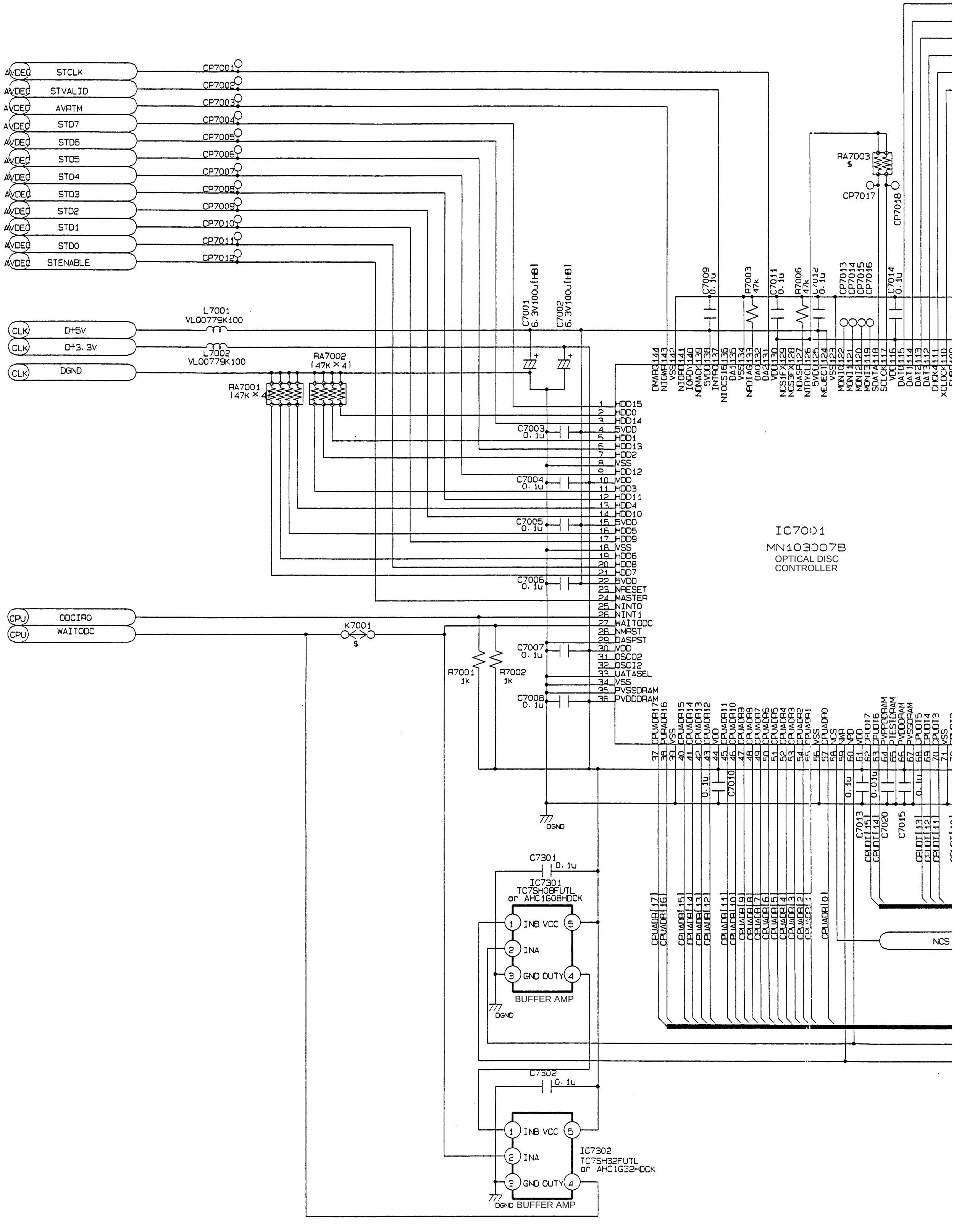


F SPINDLE POSITION P.C.B (REP2578A-N)



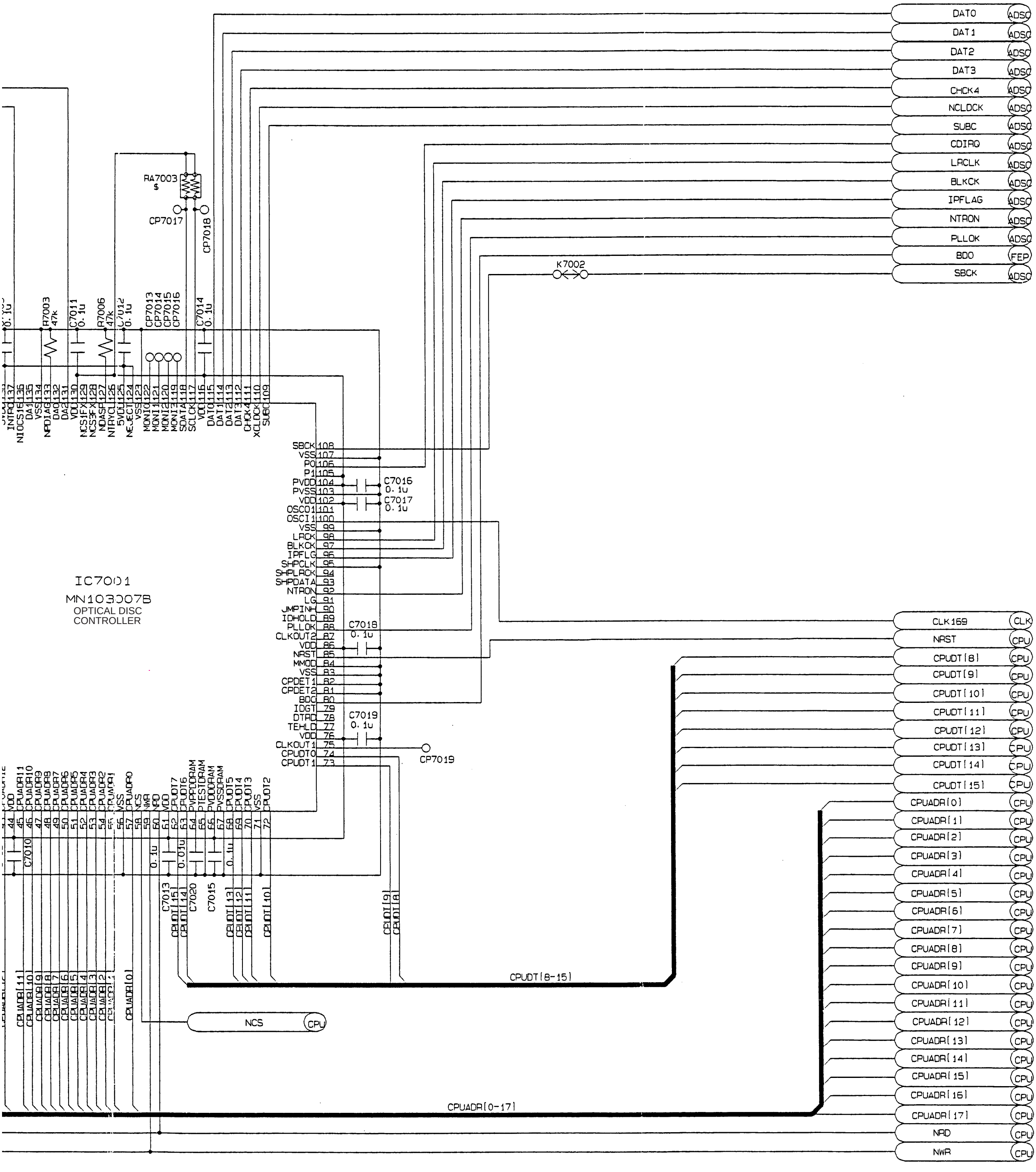
D1
W1
1 2 3 4
SW5

SCHEMATIC DIAGRAM-27

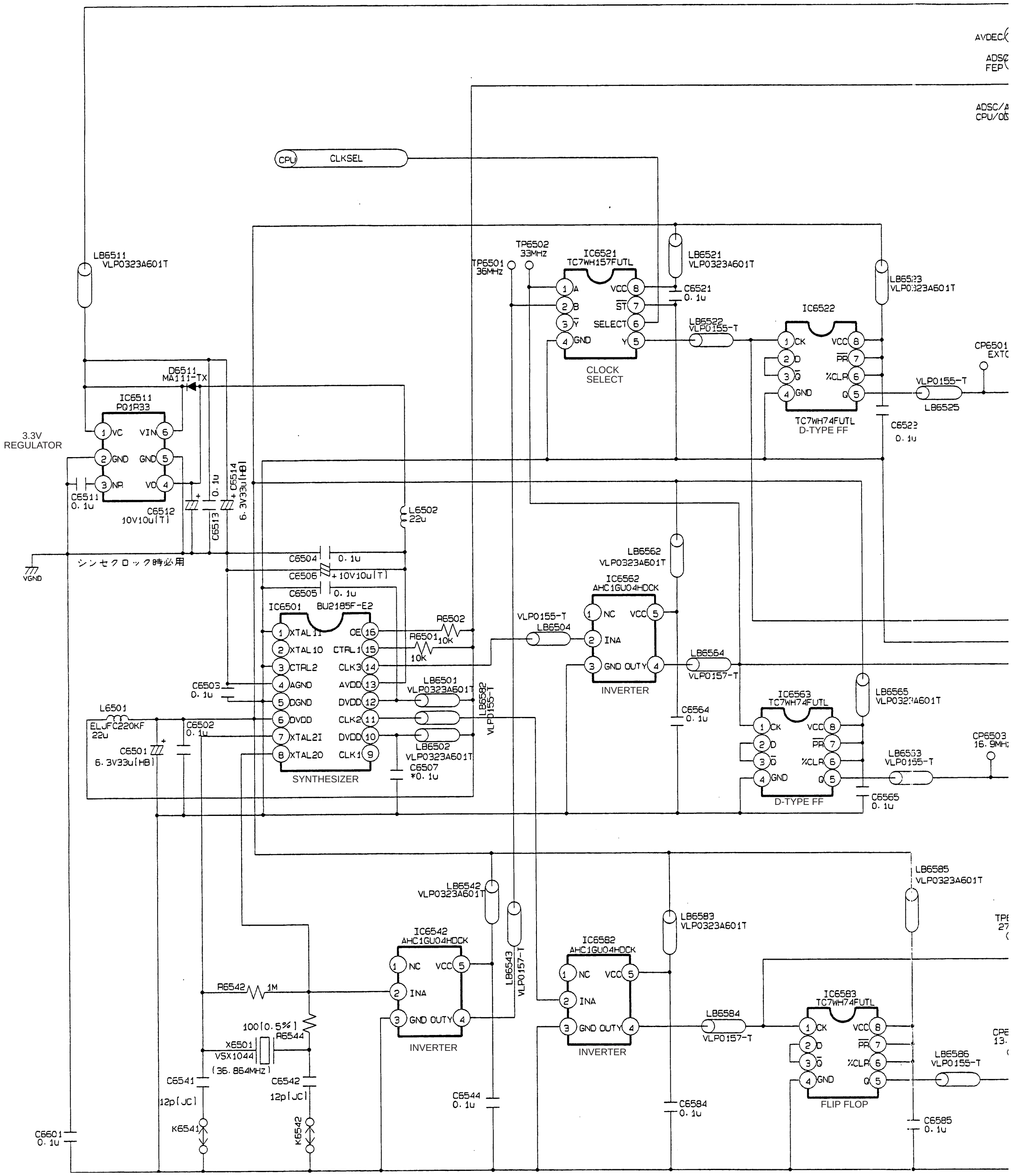


AVDEC STCLK
AVDEC STVALID
AVDEC AVRTM
AVDEC STD7
AVDEC STD6
AVDEC STD5
AVDEC STD4
AVDEC STD3
AVDEC STD2
AVDEC STD1
AVDEC STD0
AVDEC STENABLE
CP7001
CP7002
CP7003
CP7004
CP7005
CP7006
CP7007
CP7008
CP7009
CP7010
CP7011
CP7012
CLK D+5V
CLK D+3.3V
CLK DGND
L7001 VLQ0779K100
L7002 VLQ0779K100
RA7001 (47K × 4)
RA7002 (47K × 4)
C7001 6.3V100u(HB)
C7002 6.3V100u(HB)
C7003 0.1u
C7004 0.1u
C7005 0.1u
C7006 0.1u
C7007 0.1u
C7008 0.1u
C7009 0.1u
C7010
C7011 0.1u
C7012 0.1u
C7013
C7014 0.1u
C7015
C7020
R7003 47k
R7006 47k
RA7003 $
CP7013
CP7014
CP7015
CP7016
CP7017
CP7018
CPU ODCIRQ
CPU WAITODC
K7001 $
R7001 1k
R7002 1k
DGND
1 HDD15
2 HDD0
3 HDD14
4 5VDD
5 HDD1
6 HDD13
7 HDD2
8 VSS
9 HDD12
10 VDD
11 HDD3
12 HDD11
13 HDD4
14 HDD10
15 5VDD
16 HDD5
17 HDD9
18 VSS
19 HDD6
20 HDD8
21 HDD7
22 5VDD
23 NRESET
24 MASTER
25 NINT0
26 NINT1
27 WAITODC
28 NMRST
29 DASPST
30 VDD
31 OSCO2
32 OSCI2
33 UATASEL
34 VSS
35 PVSSDRAM
36 PVDDDRAM
DMARQ144
NIOWR143
VSS142
NIORD141
IORDY140
NDMACK139
5VDD138
INTRQ137
NIOCS16136
DA1135
VSS134
NPDIAG133
DA0132
DA2131
VDD130
NCS1FX129
NCS3FX128
NDASP127
NTRYCL126
5VDD125
NEJECT124
VSS123
MONI0122
MONI1121
MONI2120
MONI3119
SDATA118
SCLCK117
VDD116
DAT0115
DAT1114
DAT2113
DAT3112
CHCK4111
XCLOCK110
37 CPUADR17
38 CPUADR16
39 VSS
40 CPUADR15
41 CPUADR14
42 CPUADR13
43 CPUADR12
44 VDD
45 CPUADR11
46 CPUADR10
47 CPUADR9
48 CPUADR8
49 CPUADR7
50 CPUADR6
51 CPUADR5
52 CPUADR4
53 CPUADR3
54 CPUADR2
55 CPUADR1
56 VSS
57 CPUADR0
58 NCS
59 NWR
60 NRD
61 VDD
62 CPUDT7
63 CPUDT6
64 PVPPDRAM
65 PTESTDRAM
66 PVDDDRAM
67 PVSSDRAM
68 CPUDT5
69 CPUDT4
70 CPUDT3
71 VSS
IC7001
MN103007B
OPTICAL DISC CONTROLLER
CPUADR[17]
CPUADR[16]
CPUADR[15]
CPUADR[14]
CPUADR[13]
CPUADR[12]
CPUADR[11]
CPUADR[10]
CPUADR[9]
CPUADR[8]
CPUADR[7]
CPUADR[6]
CPUADR[5]
CPUADR[4]
CPUADR[3]
CPUADR[2]
CPUADR[1]
CPUADR[0]
CPUDT[15]
CPUDT[14]
CPUDT[13]
CPUDT[12]
CPUDT[11]
NCS
C7301 0.1u
IC7301
TC7SH08FUTL
or AHC1G08HDCK
1 INB
2 INA
3 GND
4 OUTY
5 VCC
BUFFER AMP
C7302 0.1u
IC7302
TC7SH32FUTL
or AHC1G32HDCK
BUFFER AMP

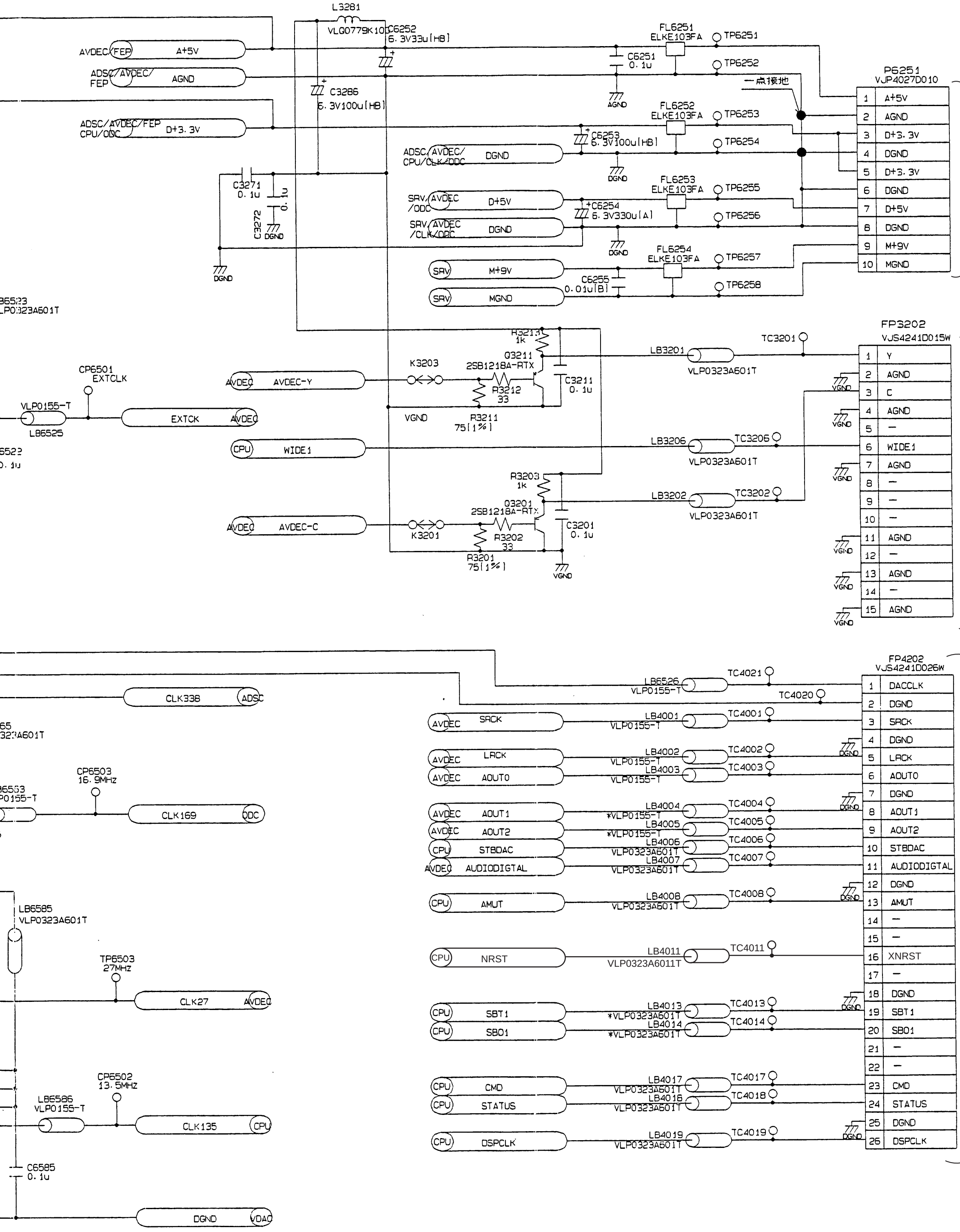
SCHEMATIC DIAGRAM-28


IC7001
MN103007B
OPTICAL DISC
CONTROLLER
RA7003
CP7017
CP7018
R7003 47k
C7011 0.1u
R7006 47k
C7012 0.1u
CP7013
CP7014
CP7015
CP7016
C7014 0.1u
K7002
C7016 0.1u
C7017 0.1u
C7018 0.1u
C7019 0.1u
CP7019
C7010
C7013
C7020
C7015
DAT0 ADSC
DAT1 ADSC
DAT2 ADSC
DAT3 ADSC
CHCK4 ADSC
NCLDCK ADSC
SUBC ADSC
CDIRQ ADSC
LRCLK ADSC
BLKCK ADSC
IPFLAG ADSC
NTRON ADSC
PLLOK ADSC
BDO FEP
SBCK ADSC
CLK169 CLK
NRST CPU
CPUDT[8] CPU
CPUDT[9] CPU
CPUDT[10] CPU
CPUDT[11] CPU
CPUDT[12] CPU
CPUDT[13] CPU
CPUDT[14] CPU
CPUDT[15] CPU
CPUADR[0] CPU
CPUADR[1] CPU
CPUADR[2] CPU
CPUADR[3] CPU
CPUADR[4] CPU
CPUADR[5] CPU
CPUADR[6] CPU
CPUADR[7] CPU
CPUADR[8] CPU
CPUADR[9] CPU
CPUADR[10] CPU
CPUADR[11] CPU
CPUADR[12] CPU
CPUADR[13] CPU
CPUADR[14] CPU
CPUADR[15] CPU
CPUADR[16] CPU
CPUADR[17] CPU
NRD CPU
NWR CPU
NCS CPU
CPUDT[8-15]
CPUADR[0-17]
SBCK 108
VSS 107
P0 106
P1 105
PVDD 104
PVSS 103
VDD 102
OSCO1 101
OSCI1 100
VSS 99
LRCK 98
BLKCK 97
IPFLG 96
SHPCLK 95
SHPLRCK 94
SHPDATA 93
NTRON 92
LG 91
JMPINH 90
IDHOLD 89
PLLOK 88
CLKOUT2 87
VDD 86
NRST 85
MMOD 84
VSS 83
CPDET1 82
CPDET2 81
BDO 80
IDGT 79
DTRD 78
TEHLD 77
VDD 76
CLKOUT1 75
CPUDT0 74
CPUDT1 73
INTRQ 137
NIOCS16 136
DA1 135
VSS 134
NPDIAG 133
DA0 132
DA2 131
VDD 130
NCS1FX 129
NCS3FX 128
NDASP 127
NTRYCL 126
5VDD 125
NEJECT 124
VSS 123
MONI0 122
MONI1 121
MONI2 120
MONI3 119
SDATA 118
SCLCK 117
VDD 116
DAT0 115
DAT1 114
DAT2 113
DAT3 112
CHCK4 111
XCLOCK 110
SUBC 109
VDD 44
CPUADR11 45
CPUADR10 46
CPUADR9 47
CPUADR8 48
CPUADR7 49
CPUADR6 50
CPUADR5 51
CPUADR4 52
CPUADR3 53
CPUADR2 54
CPUADR1 55
VSS 56
CPUADR0 57
NCS 58
NWR 59
NRD 60
VDD 61
CPUDT7 62
CPUDT6 63
PVPPDRAM 64
PTESTDRAM 65
PVDDDRAM 66
PVSSDRAM 67
CPUDT5 68
CPUDT4 69
CPUDT3 70
VSS 71
CPUDT2 72
CPUDT[15]
CPUDT[14]
CPUDT[13]
CPUDT[12]
CPUDT[11]
CPUDT[10]
CPUDT[9]
CPUDT[8]
CPUADR[11]
CPUADR[10]
CPUADR[9]
CPUADR[7]
CPUADR[6]
CPUADR[5]
CPUADR[4]
CPUADR[3]
CPUADR[2]
CPUADR[0]

SCHEMATIC DIAGRAM-25


AVDEC
ADSC
FEP
ADSC/A
CPU/OC
CPU
CLKSEL
LB6511
VLP0323A601T
TP6501
36MHz
TP6502
33MHz
IC6521
TC7WH157FUTL
A
B
Y
GND
VCC
ST
SELECT
Y
CLOCK
SELECT
LB6521
VLP0323A601T
C6521
0. 1u
LB6522
VLP0155-T
LB6523
VLP0323A601T
IC6522
CK
D
Q
GND
VCC
PR
CLR
Q
TC7WH74FUTL
D-TYPE FF
C6522
0. 1u
CP6501
EXTC
VLP0155-T
LB6525
D6511
MA111-TX
IC6511
P01R33
VC
GND
NR
VIN
GND
VO
3.3V
REGULATOR
C6511
0. 1u
C6512
10V10u(T)
C6513
0. 1u
C6514
6. 3V33u(HB)
L6502
22u
VGND
シンセクロック時必用
C6504
0. 1u
C6506
10V10u(T)
C6505
0. 1u
IC6501
BU2185F-E2
XTAL1I
XTAL1O
CTRL2
AGND
DGND
DVDD
XTAL2I
XTAL2O
OE
CTRL1
CLK3
AVDD
DVDD
CLK2
DVDD
CLK1
SYNTHESIZER
R6502
10K
R6501
10K
C6503
0. 1u
L6501
ELJFC220KF
22u
C6501
6. 3V33u(HB)
C6502
0. 1u
LB6501
VLP0323A601T
LB6502
VLP0323A601T
LB6582
VLP0155-T
C6507
*0. 1u
VLP0155-T
LB6504
LB6562
VLP0323A601T
IC6562
AHC1GU04HDCK
NC
INA
GND OUTY
VCC
INVERTER
LB6564
VLP0157-T
C6564
0. 1u
IC6563
TC7WH74FUTL
CK
D
Q
GND
VCC
PR
CLR
Q
D-TYPE FF
LB6565
VLP0323A601T
C6565
0. 1u
CP6503
16. 9MHz
LB6563
VLP0155-T
LB6542
VLP0323A601T
LB6543
VLP0157-T
IC6542
AHC1GU04HDCK
NC
INA
GND OUTY
VCC
INVERTER
R6542
1M
100(0. 5%)
R6544
X6501
VSX1044
(36. 864MHz)
C6541
12p(JC)
C6542
12p(JC)
K6541
K6542
C6544
0. 1u
C6601
0. 1u
LB6583
VLP0323A601T
IC6582
AHC1GU04HDCK
NC
INA
GND OUTY
VCC
INVERTER
LB6584
VLP0157-T
C6584
0. 1u
IC6583
TC7WH74FUTL
CK
D
Q
GND
VCC
PR
CLR
Q
FLIP FLOP
LB6585
VLP0323A601T
LB6586
VLP0155-T
C6585
0. 1u
TP
27
CP
13.

SCHEMATIC DIAGRAM-26

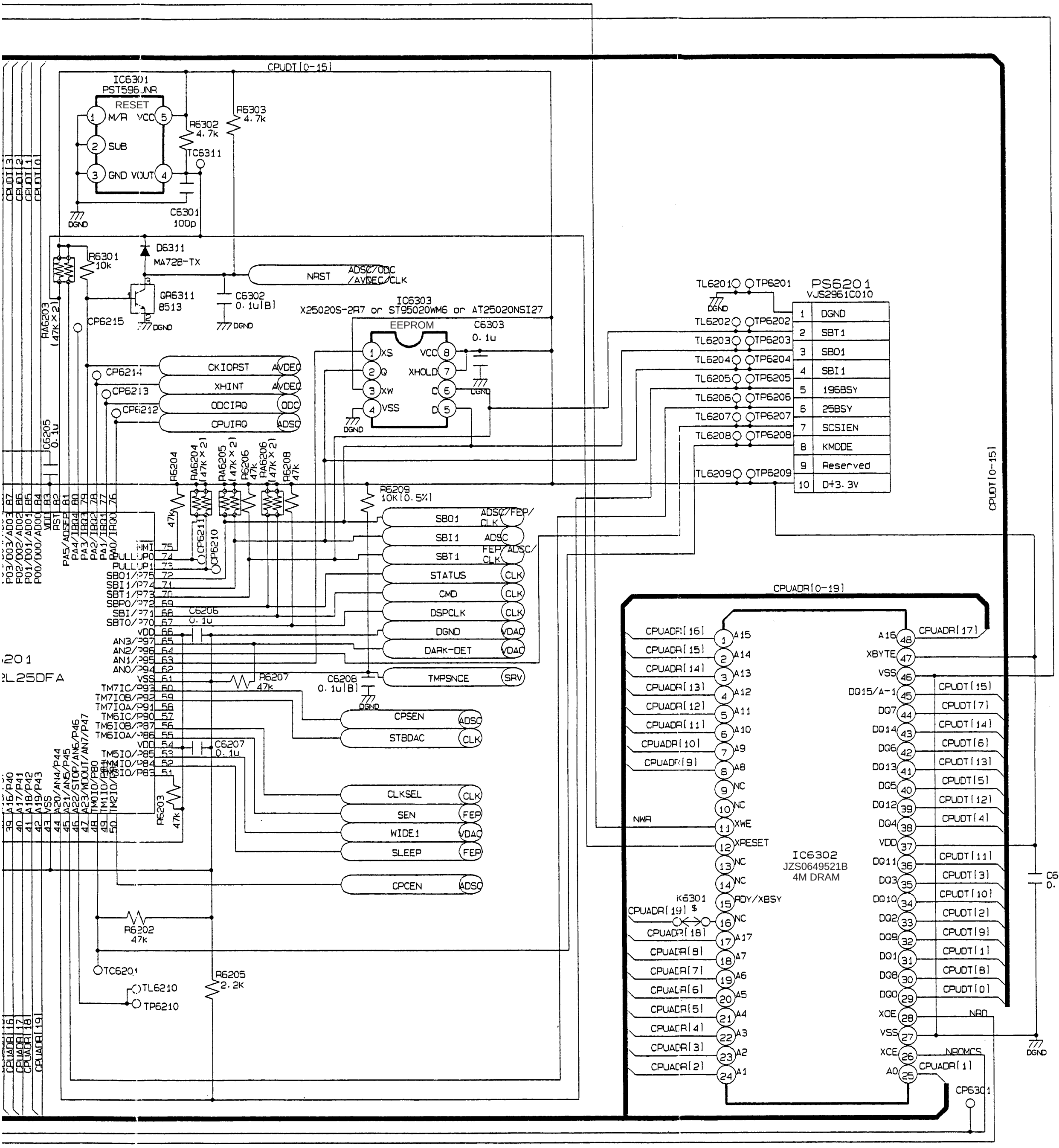

L3281
VLQ0779K10
C6252
6.3V33u[HB]
AVDEC/FEP
A+5V
ADSC/AVDEC/FEP
AGND
C3286
6.3V100u[HB]
ADSC/AVDEC/FEP CPU/ODC
D+3.3V
C3271
0.1u
0.1u
C3272
DGND
FL6251
ELKE103FA
TP6251
C6251
0.1u
TP6252
AGND
一点接地
FL6252
ELKE103FA
TP6253
C6253
6.3V100u[HB]
TP6254
ADSC/AVDEC/ CPU/CLK/ODC
DGND
FL6253
ELKE103FA
TP6255
SRV/AVDEC /ODC
D+5V
C6254
6.3V330u[A]
TP6256
SRV/AVDEC /CLK/ODC
DGND
FL6254
ELKE103FA
TP6257
SRV
M+9V
C6255
0.01u[B]
TP6258
SRV
MGND
P6251
VJP4027D010
1 A+5V
2 AGND
3 D+3.3V
4 DGND
5 D+3.3V
6 DGND
7 D+5V
8 DGND
9 M+9V
10 MGND
B6523
VLP0323A601T
R3213
1k
Q3211
2SB1218A-RTX
K3203
CP6501
EXTCLK
AVDEC
AVDEC-Y
R3212
33
C3211
0.1u
VLP0155-T
LB6525
EXTCK
VGND
R3211
75[1%]
LB3201
VLP0323A601T
TC3201
FP3202
VJS4241D015W
1 Y
2 AGND
3 C
4 AGND
5 —
6 WIDE1
7 AGND
8 —
9 —
10 —
11 AGND
12 —
13 AGND
14 —
15 AGND
6522
0.1u
CPU
WIDE1
LB3206
VLP0323A601T
TC3206
R3203
1k
Q3201
2SB1218A-RTX
LB3202
VLP0323A601T
TC3202
AVDEC-C
K3201
R3202
33
C3201
0.1u
R3201
75[1%]
FP4202
VJS4241D026W
LB6526
VLP0155-T
TC4021
TC4020
CLK33B
ADSC
65
VLP0323A601T
SRCK
LB4001
VLP0155-T
TC4001
LRCK
LB4002
VLP0155-T
TC4002
AOUT0
LB4003
VLP0155-T
TC4003
CP6503
16.9MHz
B6563
VLP0155-T
CLK169
ODC
AOUT1
LB4004
*VLP0155-T
TC4004
AOUT2
LB4005
*VLP0155-T
TC4005
STBDAC
LB4006
VLP0323A601T
TC4006
AUDIODGTAL
LB4007
VLP0323A601T
TC4007
LB6585
VLP0323A601T
AMUT
LB4008
VLP0323A601T
TC4008
NRST
LB4011
VLP0323A6011T
TC4011
TP6503
27MHz
CLK27
SBT1
LB4013
*VLP0323A601T
TC4013
SBO1
LB4014
*VLP0323A601T
TC4014
CP6502
13.5MHz
LB6586
VLP0155-T
CLK135
CMD
LB4017
VLP0323A601T
TC4017
STATUS
LB4018
VLP0323A601T
TC4018
DSPCLK
LB4019
VLP0323A601T
TC4019
C6585
0.1u
DGND
VDAC
1 DACCLK
2 DGND
3 SRCK
4 DGND
5 LRCK
6 AOUT0
7 DGND
8 AOUT1
9 AOUT2
10 STBDAC
11 AUDIODIGTAL
12 DGND
13 AMUT
14 —
15 —
16 XNRST
17 —
18 DGND
19 SBT1
20 SBO1
21 —
22 —
23 CMD
24 STATUS
25 DGND
26 DSPCLK

TO **G**
DVD CIRCUIT
(CP6251) ON
SCHEMATIC
DIAGRAM-31

TO **B**
DAC CIRCUIT
(CN1301) ON
SCHEMATIC
DIAGRAM-29

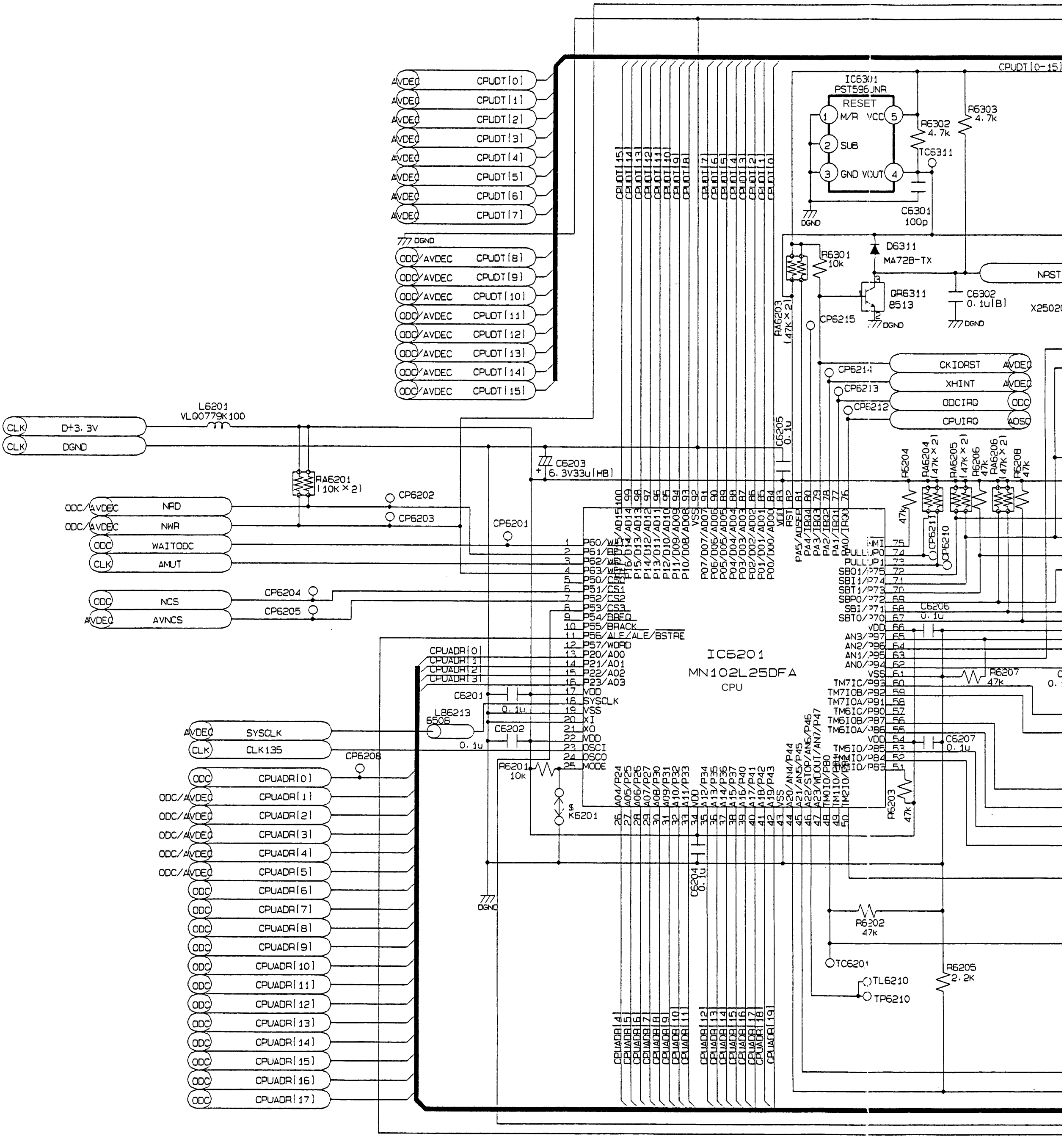
TO **B**
DVD CIRCUIT
(CN1302) ON
SCHEMATIC
DIAGRAM-30

SCHEMATIC DIAGRAM-24

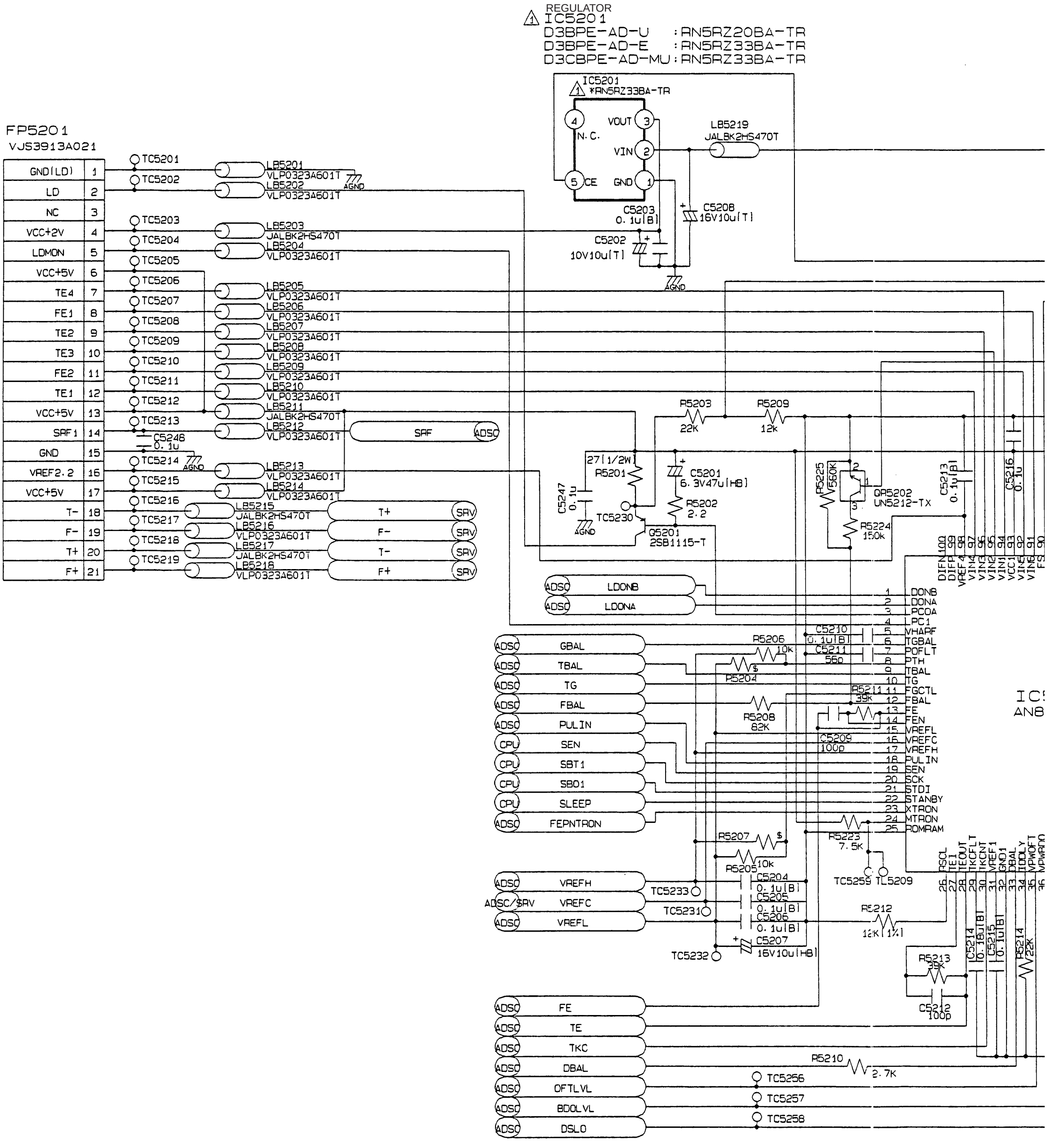


CPUDT[0-15]
IC6301
PST596JNR
RESET
M/R
VCC
SUB
GND
VOUT
DGND
C6301
100p
R6302
4.7k
R6303
4.7k
TC6311
D6311
MA728-TX
R6301
10k
QR6311
8513
C6302
0.1u[B]
NRST
ADSC/ODC
/AVDEC/CLK
RA6203
(47k×2)
CP6215
IC6303
X25020S-2R7 or ST95020WM6 or AT25020NSI27
EEPROM
C6303
0.1u
XS
Q
XW
VSS
VCC
XHOLD
C
D
CKIOPST
XHINT
ODCIRQ
CPUIRQ
AVDEC
ODC
ADSC
CP6214
CP6213
CP6212
C6205
0.1u
R6204
47k
RA6204
(47k×2)
RA6205
(47k×2)
R6205
47k
RA6206
(47k×2)
R6208
47k
R6209
10K[0.5%]
CP6211
CP6210
SB01
SBI1
SBT1
STATUS
CMD
DSPCLK
DGND
DARK-DET
TMPSNCE
ADSC/FEP/CLK
ADSC
FEP/ADSC/CLK
CLK
VDAC
SRV
C6206
0.1u
R6207
47k
C6208
0.1u[B]
CPSEN
STBDAC
C6207
0.1u
R6203
47k
CLKSEL
SEN
WIDE1
SLEEP
CPCEN
FEP
R6202
47k
TC6201
TL6210
TP6210
R6205
2.2K
6201
2L25DFA
CPUDT[3]
CPUDT[2]
CPUDT[1]
CPUDT[0]
CPUADR[16]
CPUADR[17]
CPUADR[18]
CPUADR[19]
TL6201
TP6201
PS6201
VJS2961C010
1 DGND
2 SBT1
3 SB01
4 SBI1
5 196BSY
6 25BSY
7 SCSIEN
8 KMODE
9 Reserved
10 D+3.3V
TL6202
TP6202
TL6203
TP6203
TL6204
TP6204
TL6205
TP6205
TL6206
TP6206
TL6207
TP6207
TL6208
TP6208
TL6209
TP6209
CPUDT[0-15]
CPUADR[0-19]
IC6302
JZS0649521B
4M DRAM
NWR
XWE
XRESET
RDY/XBSY
K6301
A15
A14
A13
A12
A11
A10
A9
A8
NC
A17
A7
A6
A5
A4
A3
A2
A1
A16
XBYTE
VSS
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
VDD
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
XOE
XCE
A0
NRD
NROMCS
C6304
0.1u
CP6301

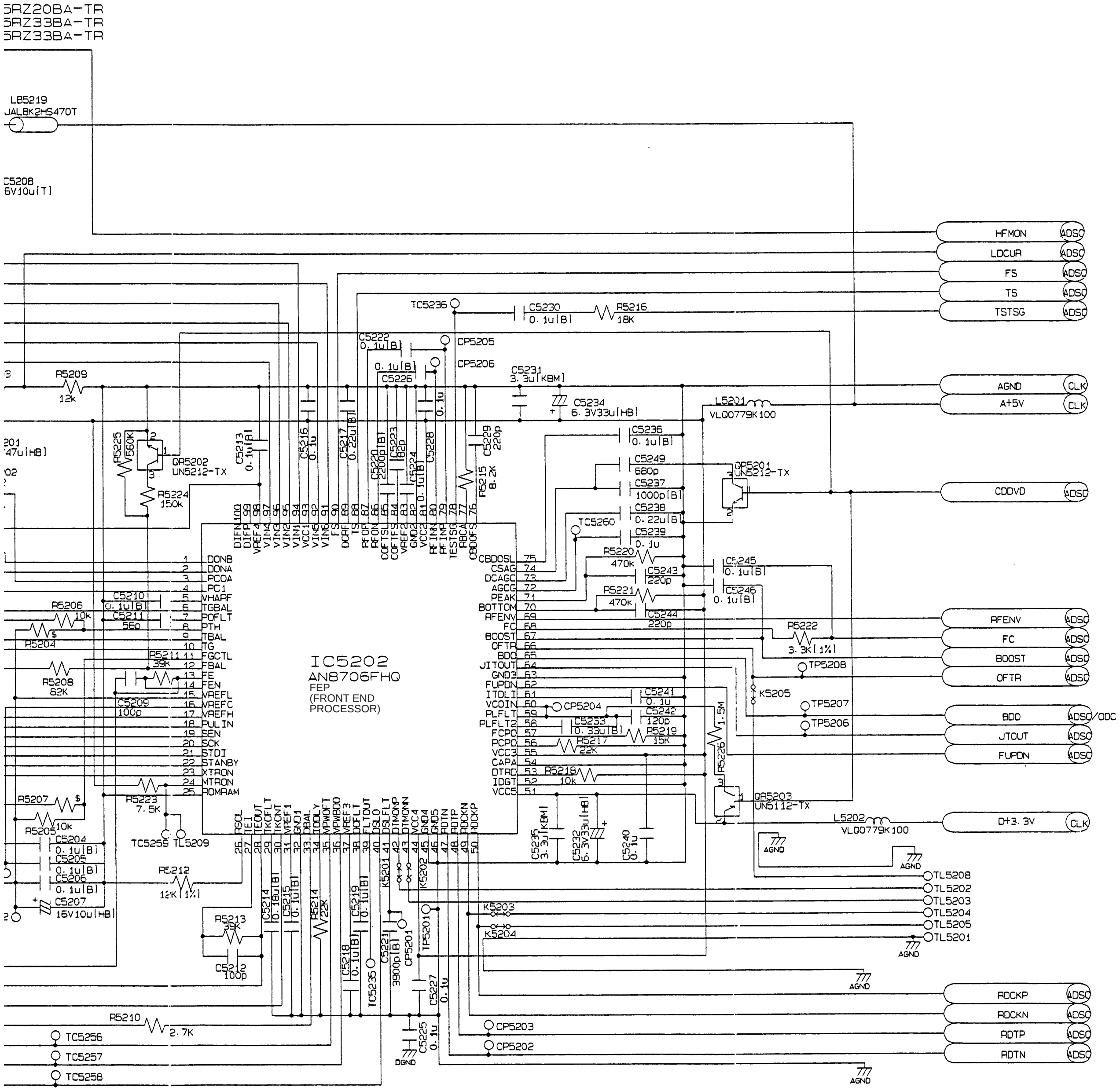
SCHEMATIC DIAGRAM-23


IC6201
MN102L25DFA
CPU
IC6301
PST596JNR
RESET
M/R
VCC
SUB
GND
VOUT
R6302
4.7k
R6303
4.7k
TC6311
C6301
100p
DGND
D6311
MA728-TX
R6301
10k
QR6311
8513
C6302
0.1u(B)
NRST
X2502
RA6203
(47K×2)
CP6215
CKIORST
XHINT
ODCIRQ
CPUIRQ
CP6214
CP6213
CP6212
C6205
0.1u
R6204
47k
RA6204
47k×2
RA6205
47k×2
R6206
47k
RA6206
47k×2
R6208
47k
CP6211
CP6210
C6206
0.1u
R6207
47k
C6207
0.1u
R6203
47k
R6202
47k
TC6201
TL6210
TP6210
R6205
2.2K
CPUDT(0-15)
CPUDT(0)
CPUDT(1)
CPUDT(2)
CPUDT(3)
CPUDT(4)
CPUDT(5)
CPUDT(6)
CPUDT(7)
CPUDT(8)
CPUDT(9)
CPUDT(10)
CPUDT(11)
CPUDT(12)
CPUDT(13)
CPUDT(14)
CPUDT(15)
AVDEC
ODC/AVDEC
L6201
VLG0779K100
CLK
D+3.3V
DGND
C6203
6.3V33u(HB)
RA6201
(10K×2)
CP6202
CP6203
CP6201
NRD
NWR
WAITODC
AMUT
ODC
NCS
AVNCS
CP6204
CP6205
CPUADR(0)
CPUADR(1)
CPUADR(2)
CPUADR(3)
C6201
0.1u
LB6213
6506
C6202
0.1u
SYSCLK
CLK135
CP6208
R6201
10k
K6201
CPUADR(4)
CPUADR(5)
CPUADR(6)
CPUADR(7)
CPUADR(8)
CPUADR(9)
CPUADR(10)
CPUADR(11)
CPUADR(12)
CPUADR(13)
CPUADR(14)
CPUADR(15)
CPUADR(16)
CPUADR(17)
CPUADR(18)
CPUADR(19)
C6204
0.1u
1 P60/WAIT
2 P61/RE
3 P62/WE
4 P63/WEH
5 P50/CS0
6 P51/CS1
7 P52/CS2
8 P53/CS3
9 P54/BREQ
10 P55/BRACK
11 P56/ALE/ALE/BSTRE
12 P57/WORD
13 P20/A00
14 P21/A01
15 P22/A02
16 P23/A03
17 VDD
18 SYSCLK
19 VSS
20 XI
21 XO
22 VDD
23 OSCI
24 OSCO
25 MODE
26 A04/P24
27 A05/P25
28 A06/P26
29 A07/P27
30 A08/P30
31 A09/P31
32 A10/P32
33 A11/P33
34 VDD
35 A12/P34
36 A13/P35
37 A14/P36
38 A15/P37
39 A16/P40
40 A17/P41
41 A18/P42
42 A19/P43
43 VSS
44 A20/AN4/P44
45 A21/AN5/P45
46 A22/STOP/AN6/P46
47 A23/NDOUT/AN7/P47
48 TM10/P80
49 TM11/P81
50 TM21O/P82
51 TM3IO/P83
52 TM4IO/P84
53 TM5IO/P85
54 VDD
55 TM6IOA/P86
56 TM6IOB/P87
57 TM6IC/P90
58 TM7IOA/P91
59 TM7IOB/P92
60 TM7IC/P93
61 VSS
62 AN0/P94
63 AN1/P95
64 AN2/P96
65 AN3/P97
66 VDD
67 SBT0/P70
68 SBI/P71
69 SBP0/P72
70 SBT1/P73
71 SBI1/P74
72 SBO1/P75
73 PULLUP1
74 PULLUP0
75 NMI
76 PA0/IRQ0
77 PA1/IRQ1
78 PA2/IRQ2
79 PA3/IRQ3
80 PA4/IRQ4
81 PA5/ADSEP
82 RST
83 VDD
84 P00/D00/AD00
85 P01/D01/AD01
86 P02/D02/AD02
87 P03/D03/AD03
88 P04/D04/AD04
89 P05/D05/AD05
90 P06/D06/AD06
91 P07/D07/AD07
92 VSS
93 P10/D08/AD08
94 P11/D09/AD09
95 P12/D10/AD10
96 P13/D11/AD11
97 P14/D12/AD12
98 P15/D13/AD13
99 P16/D14/AD14
100 P17/D15/AD15

SCHEMATIC DIAGRAM-21

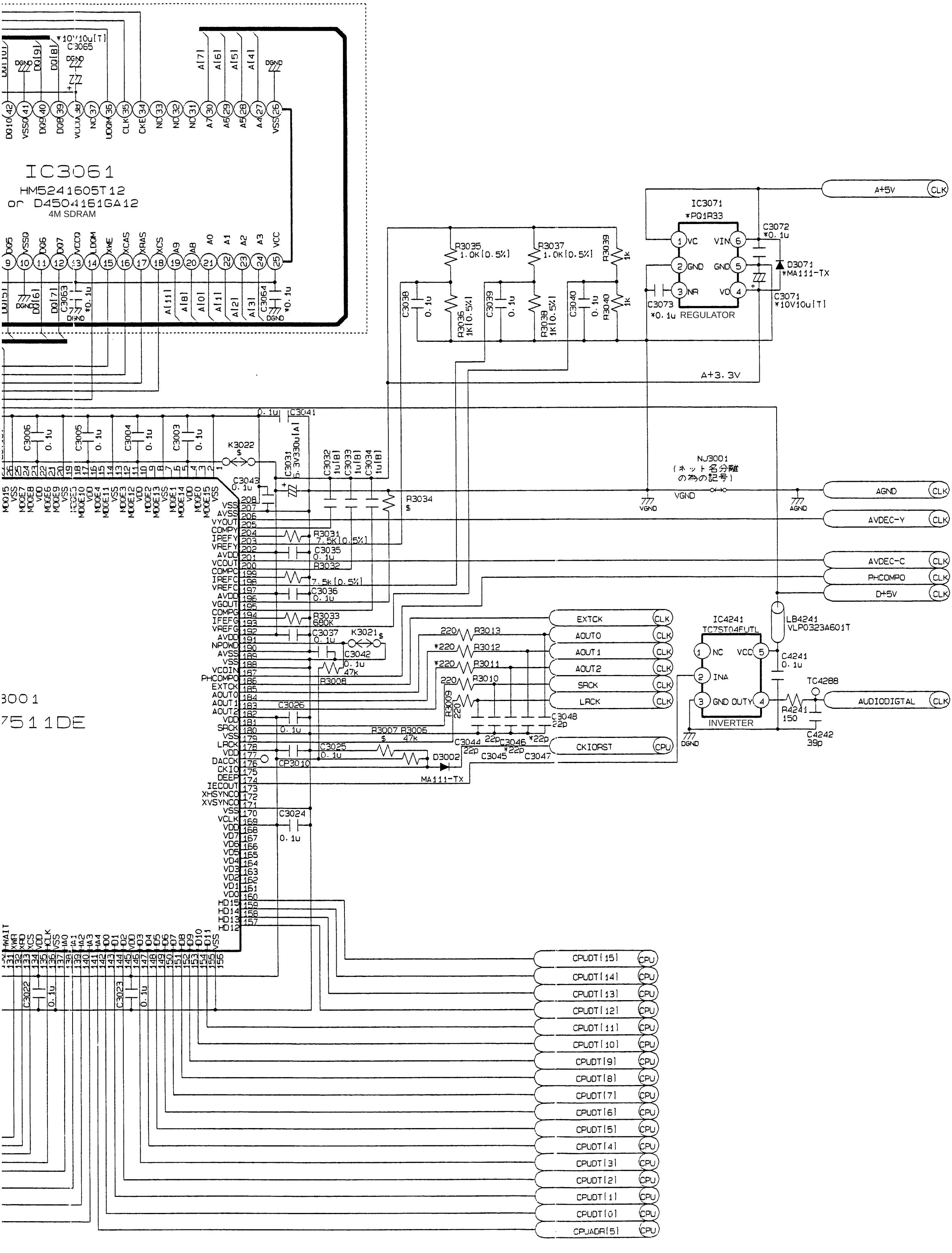

REGULATOR
IC5201
D3BPE-AD-U : RN5RZ20BA-TR
D3BPE-AD-E : RN5RZ33BA-TR
D3CBPE-AD-MU : RN5RZ33BA-TR
IC5201
*RN5RZ33BA-TR
VOUT
N. C.
VIN
CE
GND
LB5219
JALBK2HS470T
C5203
0. 1u[B]
C5208
16V10u[T]
C5202
10V10u[T]
AGND
FP5201
VJS3913A021
GND(LD) 1
LD 2
NC 3
VCC+2V 4
LDMON 5
VCC+5V 6
TE4 7
FE1 8
TE2 9
TE3 10
FE2 11
TE1 12
VCC+5V 13
SRF1 14
GND 15
VREF2.2 16
VCC+5V 17
T- 18
F- 19
T+ 20
F+ 21
TC5201
TC5202
TC5203
TC5204
TC5205
TC5206
TC5207
TC5208
TC5209
TC5210
TC5211
TC5212
TC5213
TC5214
TC5215
TC5216
TC5217
TC5218
TC5219
LB5201
VLP0323A601T
LB5202
VLP0323A601T
LB5203
JALBK2HS470T
LB5204
VLP0323A601T
LB5205
VLP0323A601T
LB5206
VLP0323A601T
LB5207
VLP0323A601T
LB5208
VLP0323A601T
LB5209
VLP0323A601T
LB5210
VLP0323A601T
LB5211
JALBK2HS470T
LB5212
VLP0323A601T
LB5213
VLP0323A601T
LB5214
VLP0323A601T
LB5215
JALBK2HS470T
LB5216
VLP0323A601T
LB5217
JALBK2HS470T
LB5218
VLP0323A601T
C5246
0. 1u
SRF
ADSC
T+
F-
T-
F+
SRV
R5203
22K
R5209
12k
27(1/2W)
R5201
C5201
6. 3V47u(HB)
R5202
2. 2
C5247
0. 1u
TC5230
Q5201
2SB1115-T
R5225
560K
QR5202
UN5212-TX
R5224
150k
C5213
0. 1u(B)
C5216
0. 1u
LDONB
LDONA
GBAL
TBAL
TG
FBAL
PULIN
SEN
SBT1
SBO1
SLEEP
FEPNTRON
CPU
R5206
10k
C5210
0. 1u(B)
C5211
56p
R5204
R5211
39K
R5208
82K
C5209
100p
1 DONB
2 DONA
3 PCOA
4 PC1
5 VHARF
6 TGBAL
7 POFLT
8 PTH
9 TBAL
10 TG
11 FGCTL
12 FBAL
13 FE
14 FEN
15 VREFL
16 VREFC
17 VREFH
18 PULIN
19 SEN
20 SCK
21 STDI
22 STANBY
23 XTRON
24 MTRON
25 ROMRAM
DIFN 100
DIFP 99
VREF4 98
VIN4 97
VIN3 96
VIN2 95
VIN1 94
VCC1 93
VIN6 92
VIN5 91
FS 90
IC
AN8
R5223
7. 5K
R5207
R5205
10k
TC5259
TL5209
26 RSCL
27 TE1
28 TEOUT
29 TKCFLT
30 TKCNT
31 VREF1
32 GND1
33 DBAL
34 TDDLY
35 VPWOFT
36 VPWDD
VREFH
VREFC
VREFL
ADSC/SRV
TC5233
TC5231
TC5232
C5204
0. 1u(B)
C5205
0. 1u(B)
C5206
0. 1u(B)
C5207
16V10u(HB)
R5212
12K(1%)
R5213
39K
C5212
100p
C5214
0. 18u(B)
C5215
0. 1u(B)
R5214
22K
FE
TE
TKC
DBAL
OFTLVL
BDOLVL
DSLO
R5210
2. 7K
TC5256
TC5257
TC5258

SCHEMATIC DIAGRAM-22

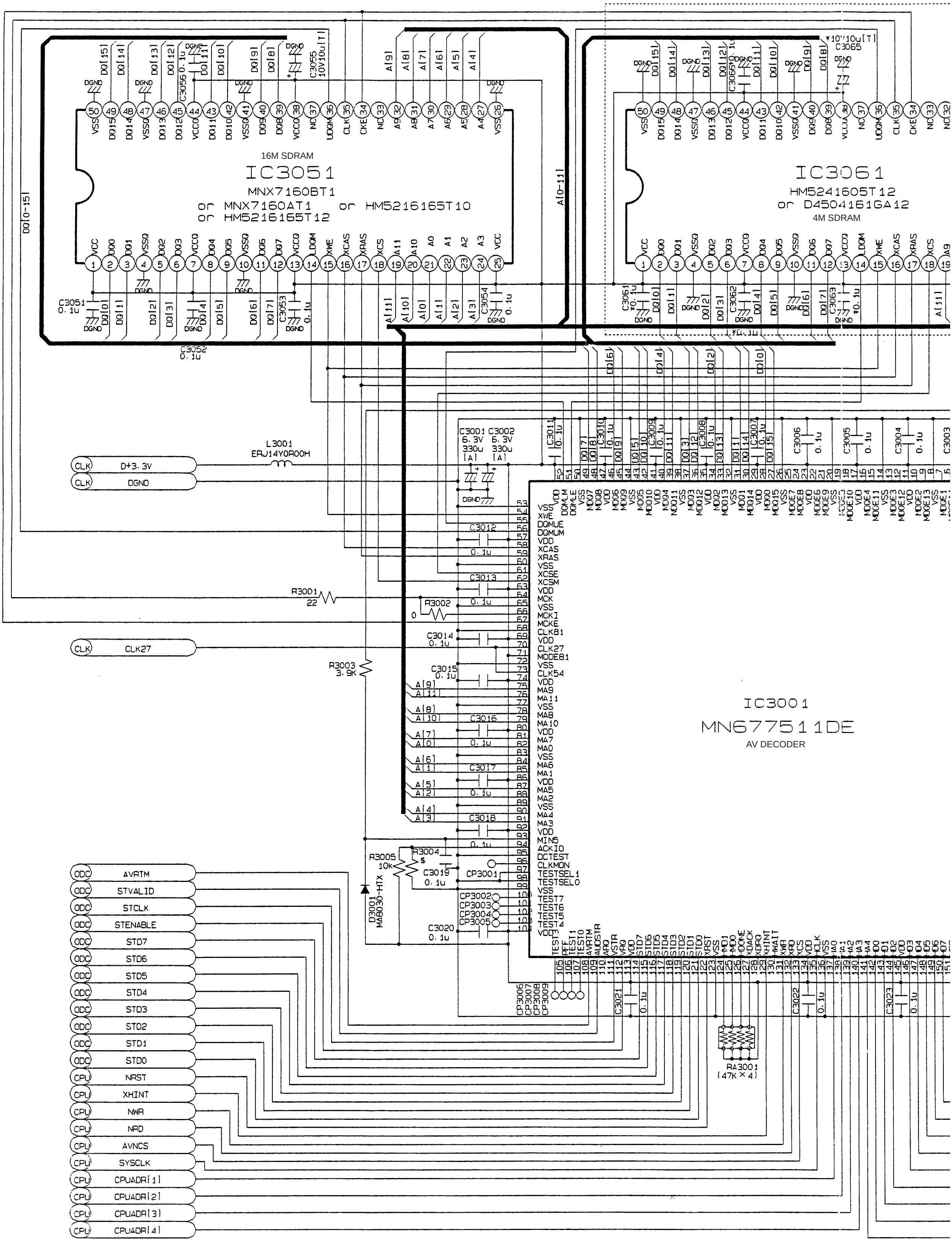


5RZ20BA-TR
5RZ33BA-TR
5RZ33BA-TR
LB5219
JALBK2HS470T
C5208
6V10u[T]
HFMON
LDCUR
FS
TS
TSTSG
AGND
A+5V
CDDVD
RFENV
FC
BOOST
OFTR
BDO
JTOUT
FUPDN
D+3.3V
RDCKP
RDCKN
RDTP
RDTN
ADSC
ADSC/ODC
CLK
TC5236
C5230
0.1u[B]
R5216
18K
C5222
0.1u[B]
CP5205
CP5206
C5226
0.1u[B]
C5231
3.3u[KBM]
C5234
6.3V33u[HB]
L5201
VLQ0779K100
R5209
12k
R5225
560K
QR5202
UN5212-TX
R5224
150k
C5213
0.1u[B]
C5216
0.1u
C5217
0.22u[B]
C5220
2200p[B]
C5223
82p
C5224
0.1u[B]
C5228
0.1u
C5229
220p
R5215
8.2K
C5236
0.1u[B]
C5249
680p
C5237
1000p[B]
C5238
0.22u[B]
C5239
0.1u
TC5260
R5220
470k
C5243
220p
R5221
470k
C5244
220p
C5245
0.1u[B]
C5246
0.1u[B]
QR5201
UN5212-TX
R5222
3.3K[1%]
TP5208
K5205
TP5207
TP5206
CP5204
C5241
0.1u
C5242
120p
C5233
0.33u[B]
R5219
15K
R5217
22K
R5218
10k
R5226
1.5M
QR5203
UN5112-TX
L5202
VLQ0779K100
AGND
IC5202
AN8706FHQ
FEP
(FRONT END
PROCESSOR)
1 DONB
2 DONA
3 PCOA
4 PC1
5 VHARF
6 TGBAL
7 POFLT
8 PTH
9 TBAL
10 TG
11 FGCTL
12 FBAL
13 FE
14 FEN
15 VREFL
16 VREFC
17 VREFH
18 PULIN
19 SEN
20 SCK
21 STDI
22 STANBY
23 XTRON
24 MTRON
25 ROMRAM
26 RSCL
27 TEI
28 TEOUT
29 TKCFLT
30 TKCNT
31 VREF1
32 GND1
33 DBAL
34 IDDLY
35 VPWOFT
36 VPWBDO
37 VREF3
38 DCFLT
39 FLTOUT
40 DSLO
41 DSLFLT
42 DTMONP
43 DTMONN
44 VCC4
45 GND4
46 GND5
47 RDTN
48 RDTP
49 RDCKN
50 RDCKP
51 VCC5
52 IDGT
53 DTRD
54 CAPA
55 VCC3
56 PCPO
57 FCPO
58 PLFLT2
59 PLFLT
60 VCOIN
61 ITDLI
62 FUPDN
63 GND3
64 JITOUT
65 BDO
66 OFTR
67 BOOST
68 FC
69 RFENV
70 BOTTOM
71 PEAK
72 AGCG
73 DCAGC
74 CSAG
75 CBDOSL
76 CBDOFS
77 RBCA
78 TESTSG
79 RFINP
80 RFINN
81 VCC2
82 GND2
83 VREF2
84 COFTFS
85 COFTSL
86 RFON
87 RFOP
88 TS
89 DCRF
90 FS
91 VIN6
92 VIN5
93 VCC1
94 VIN1
95 VIN2
96 VIN3
97 VIN4
98 VREF4
99 DIFP
100 DIFN
C5210
0.1u[B]
C5211
56p
R5206
10k
R5204
R5211
39K
R5208
82K
C5209
100p
R5207
R5223
7.5K
TC5259
TL5209
R5205
10k
C5204
0.1u[B]
C5205
0.1u[B]
C5206
0.1u[B]
C5207
16V10u[HB]
R5212
12K[1%]
R5213
39K
C5212
100p
C5214
0.18u[B]
C5215
0.1u[B]
R5214
22K
C5218
0.1u[B]
C5219
0.1u[B]
TC5235
C5221
3900p[B]
CP5201
K5201
K5202
TP5201
C5227
0.1u
C5225
0.1u
DGND
C5235
3.3u[KBM]
C5232
6.3V33u[HB]
C5240
0.1u
K5203
K5204
TL5208
TL5202
TL5203
TL5204
TL5205
TL5201
R5210
2.7K
TC5256
TC5257
TC5258
CP5203
CP5202

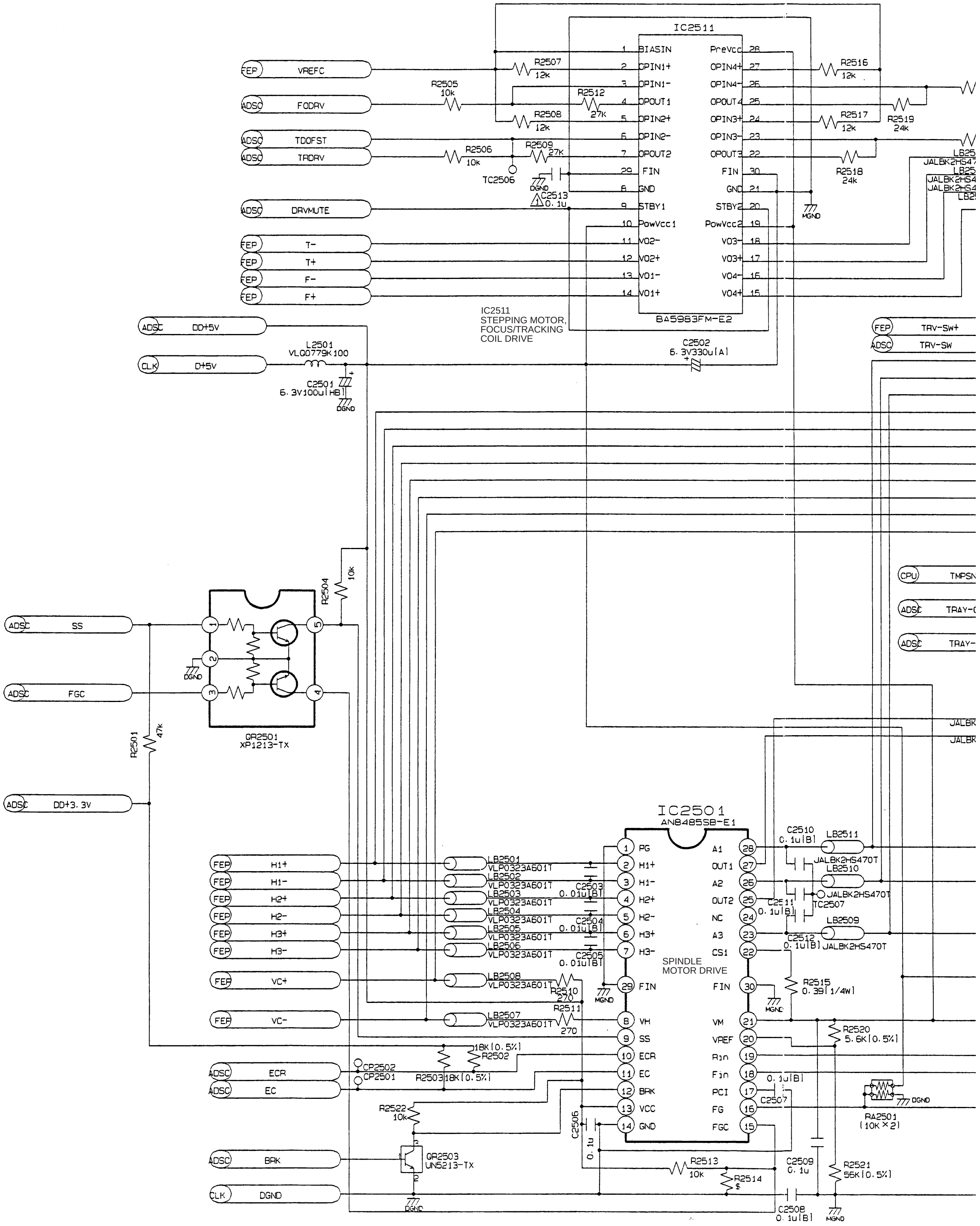
SCHEMATIC DIAGRAM-20


IC3061
HM5241605T12
or D4504161GA12
4M SDRAM
C3065
*10V10u[T]
C3063
C3064
*0.1u
IC3071
*PQ1R33
REGULATOR
VC
VIN
GND
NR
VO
C3072
*0.1u
D3071
*MA111-TX
C3071
*10V10u[T]
C3073
*0.1u
R3035
1.0K[0.5%]
R3037
1.0K[0.5%]
R3039
1k
R3036
1K[0.5%]
R3038
1K[0.5%]
R3040
1k
C3038
C3039
C3040
0.1u
A+3.3V
A+5V
C3041
C3006
C3005
C3004
C3003
K3022
C3031
6.3V330u[A]
C3032
C3033
C3034
1u[B]
C3043
R3034
NJ3001
（ネット名分離の為の記号）
VGND
AGND
AVDEC-Y
AVDEC-C
PHCOMPO
D+5V
R3031
7.5K[0.5%]
C3035
R3032
7.5k[0.5%]
C3036
R3033
680K
C3037
K3021
C3042
47k
R3008
EXTCK
AOUT0
AOUT1
AOUT2
SRCK
LRCK
R3013
R3012
R3011
R3010
220
*220
R3009
C3048
22p
C3044
C3045
C3046
C3047
*22p
CKIORST
R3007
R3006
D3002
MA111-TX
C3026
C3025
CP3010
C3024
IC4241
TC7ST04FUTL
INVERTER
NC
VCC
INA
GND
OUTY
LB4241
VLP0323A601T
C4241
0.1u
R4241
150
C4242
39p
TC4288
AUDIODIGTAL
DGND
CLK
CPU
3001
7511DE
C3022
C3023
CPUDT[15]
CPUDT[14]
CPUDT[13]
CPUDT[12]
CPUDT[11]
CPUDT[10]
CPUDT[9]
CPUDT[8]
CPUDT[7]
CPUDT[6]
CPUDT[5]
CPUDT[4]
CPUDT[3]
CPUDT[2]
CPUDT[1]
CPUDT[0]
CPUADR[5]

SCHEMATIC DIAGRAM-19

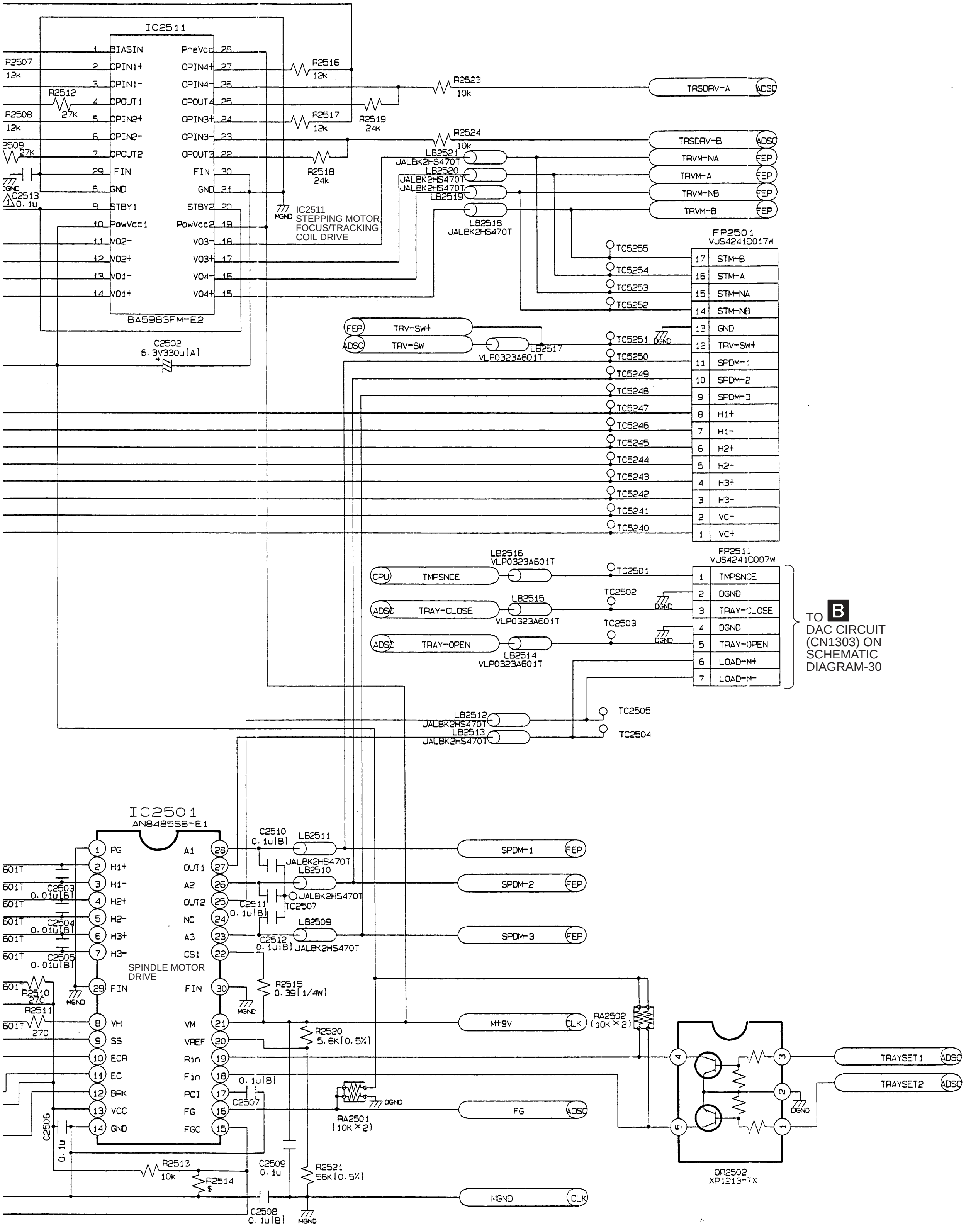

16M SDRAM
IC3051
MNX7160BT1
or MNX7160AT1 or HM5216165T10
or HM5216165T12
IC3061
HM5241605T12
or D45041161GA12
4M SDRAM
IC3001
MN677511DE
AV DECODER
DQ[0-15]
A[0-11]
L3001
ERJ14Y0R00H
D+3.3V
DGND
CLK27
R3001
22
R3002
0
R3003
3.9K
R3004
R3005
10K
D3001
MA8030-HTX
C3001 6.3V 330u [A]
C3002 6.3V 330u [A]
C3051 0.1u
C3052 0.1u
C3053 0.1u
C3054 0.1u
C3055 10V10u[T]
C3056 0.1u
C3065 10V10u[T]
RA3001
(47K×4)
CLK
ODC
CPU
AVRTM
STVALID
STCLK
STENABLE
STD7
STD6
STD5
STD4
STD3
STD2
STD1
STD0
NRST
XHINT
NWR
NRD
AVNCS
SYSCLK
CPUADR[1]
CPUADR[2]
CPUADR[3]
CPUADR[4]

SCHEMATIC DIAGRAM-17



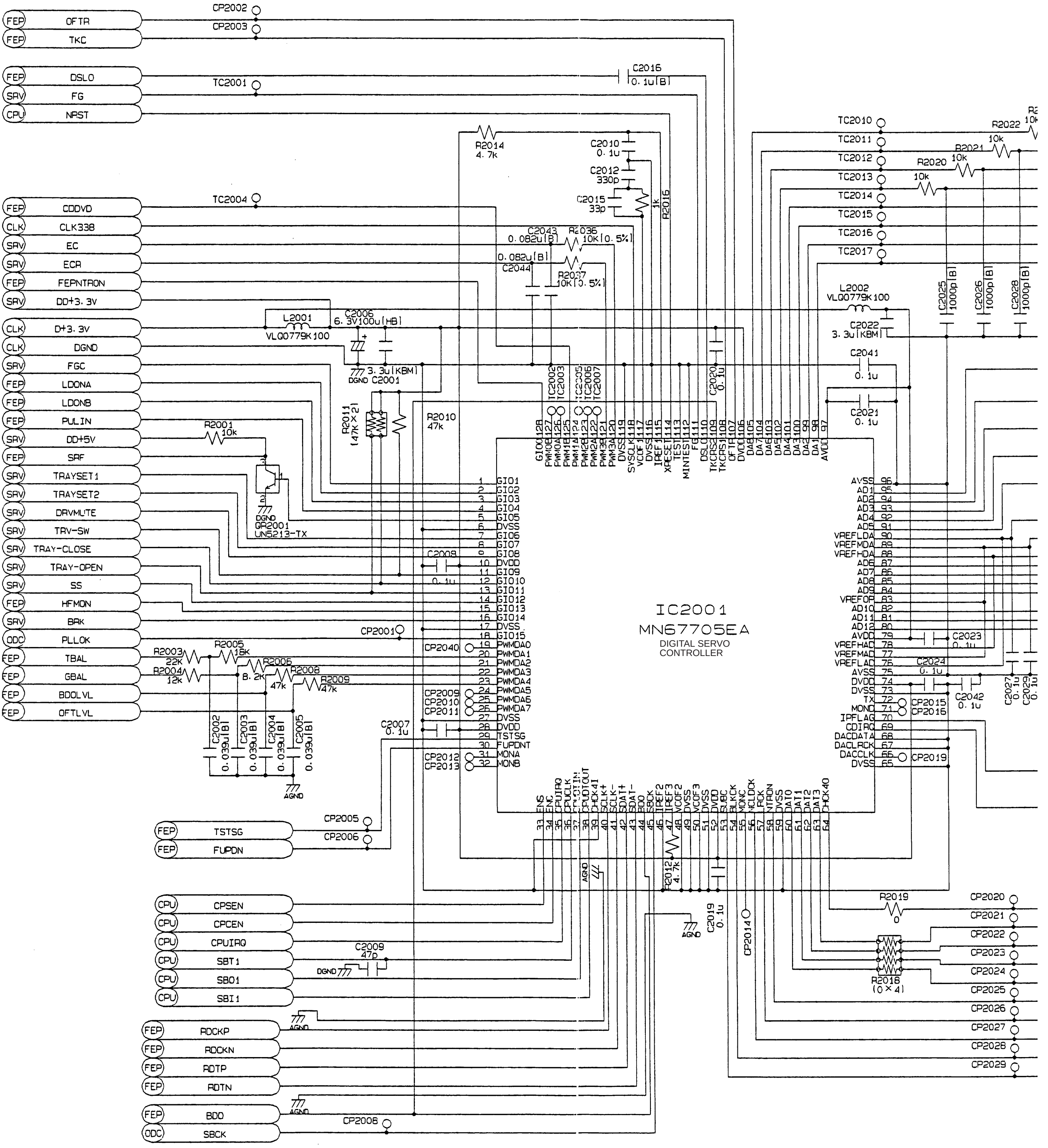
IC2511
BIASIN
OPIN1+
OPIN1-
OPOUT1
OPIN2+
OPIN2-
OPOUT2
FIN
GND
STBY1
PowVcc1
VO2-
VO2+
VO1-
VO1+
PreVcc
OPIN4+
OPIN4-
OPOUT4
OPIN3+
OPIN3-
OPOUT3
FIN
GND
STBY2
PowVcc2
VO3-
VO3+
VO4-
VO4+
BA5983FM-E2
IC2511
STEPPING MOTOR,
FOCUS/TRACKING
COIL DRIVE
FEP VREFC
ADSC FODRV
ADSC TDOFST
ADSC TRDRV
ADSC DRVMUTE
FEP T-
FEP T+
FEP F-
FEP F+
ADSC DD+5V
CLK D+5V
R2507 12k
R2505 10k
R2512 27K
R2508 12k
R2506 10k
R2509 27K
TC2506
C2513 0.1u
DGND
R2516 12k
R2517 12k
R2519 24k
R2518 24k
MGND
JALBK2HS47
L2501 VLQ0779K100
C2501 6.3V100u(HB)
C2502 6.3V330u(A)
FEP TRV-SW+
ADSC TRV-SW
CPU TMPSN
ADSC TRAY-
ADSC TRAY-
ADSC SS
ADSC FGC
ADSC DD+3.3V
R2504 10k
R2501 47k
QR2501 XP1213-TX
IC2501
AN8485SB-E1
PG
H1+
H1-
H2+
H2-
H3+
H3-
FIN
VH
SS
ECR
EC
BRK
VCC
GND
A1
OUT1
A2
OUT2
NC
A3
CS1
FIN
VM
VREF
Rin
Fin
PCI
FG
FGC
SPINDLE
MOTOR DRIVE
FEP H1+
FEP H1-
FEP H2+
FEP H2-
FEP H3+
FEP H3-
FEP VC+
FEP VC-
ADSC ECR
ADSC EC
ADSC BRK
CLK DGND
LB2501 VLP0323A601T
LB2502 VLP0323A601T
LB2503 VLP0323A601T
LB2504 VLP0323A601T
LB2505 VLP0323A601T
LB2506 VLP0323A601T
LB2508 VLP0323A601T
LB2507 VLP0323A601T
C2503 0.01u(B)
C2504 0.01u(B)
C2505 0.01u(B)
R2510 270
R2511 270
R2502 18K(0.5%)
R2503 18K(0.5%)
CP2502
CP2501
R2522 10k
QR2503 UN5213-TX
C2506 0.1u
R2513 10k
R2514 $
C2510 0.1u(B)
LB2511 JALBK2HS470T
LB2510 JALBK2HS470T
C2511 0.1u(B)
TC2507
LB2509 JALBK2HS470T
C2512 0.1u(B)
R2515 0.39(1/4W)
R2520 5.6K(0.5%)
C2507 0.1u(B)
RA2501 (10K×2)
C2509 0.1u
R2521 56K(0.5%)
C2508 0.1u(B)
JALBK
JALBK

SCHEMATIC DIAGRAM-18


IC2511
BA5983FM-E2
IC2511 STEPPING MOTOR, FOCUS/TRACKING COIL DRIVE
BIASIN
OPIN1+
OPIN1-
OPOUT1
OPIN2+
OPIN2-
OPOUT2
FIN
GND
STBY1
PowVcc1
VO2-
VO2+
VO1-
VO1+
PreVcc
OPIN4+
OPIN4-
OPOUT4
OPIN3+
OPIN3-
OPOUT3
STBY2
PowVcc2
VO3-
VO3+
VO4-
VO4+
R2507 12k
R2508 12k
R2509 27K
R2512 27K
C2513 0.1u
R2516 12k
R2517 12k
R2518 24k
R2519 24k
R2523 10k
R2524 10k
C2502 6.3V330u[A]
LB2521 JALBK2HS470T
LB2520 JALBK2HS470T
LB2519
LB2518 JALBK2HS470T
LB2517 VLP0323A601T
TRSDRV-A
TRSDRV-B
TRVM-NA
TRVM-A
TRVM-NB
TRVM-B
ADSC
FEP
TRV-SW+
TRV-SW
FP2501 VJS4241D017W
TC5255
TC5254
TC5253
TC5252
TC5251
TC5250
TC5249
TC5248
TC5247
TC5246
TC5245
TC5244
TC5243
TC5242
TC5241
TC5240
17 STM-B
16 STM-A
15 STM-NA
14 STM-NB
13 GND
12 TRV-SW+
11 SPDM-1
10 SPDM-2
9 SPDM-3
8 H1+
7 H1-
6 H2+
5 H2-
4 H3+
3 H3-
2 VC-
1 VC+
DGND
MGND
FP2511 VJS4241D007W
LB2516 VLP0323A601T
LB2515 VLP0323A601T
LB2514 VLP0323A601T
CPU
TMPSNCE
TRAY-CLOSE
TRAY-OPEN
TC2501
TC2502
TC2503
1 TMPSNCE
2 DGND
3 TRAY-CLOSE
4 DGND
5 TRAY-OPEN
6 LOAD-M+
7 LOAD-M-
TO B DAC CIRCUIT (CN1303) ON SCHEMATIC DIAGRAM-30
LB2512 JALBK2HS470T
LB2513 JALBK2HS470T
TC2505
TC2504
IC2501
AN8485SB-E1
SPINDLE MOTOR DRIVE
PG
H1+
H1-
H2+
H2-
H3+
H3-
FIN
VH
SS
ECR
EC
BRK
VCC
GND
A1
OUT1
A2
OUT2
NC
A3
CS1
VM
VREF
Rin
Fin
PCI
FG
FGC
C2503 0.01u[B]
C2504 0.01u[B]
C2505 0.01u[B]
R2510 270
R2511 270
C2506 0.1u
C2510 0.1u[B]
C2511 0.1u[B]
C2512 0.1u[B]
LB2511 JALBK2HS470T
LB2510 JALBK2HS470T
LB2509 JALBK2HS470T
TC2507
SPDM-1
SPDM-2
SPDM-3
R2515 0.39[1/4W]
R2520 5.6K[0.5%]
R2521 56K[0.5%]
C2507 0.1u[B]
C2509 0.1u
C2508 0.1u[B]
R2513 10k
R2514
RA2501 (10K×2)
RA2502 (10K×2)
M+9V
CLK
FG
MGND
QR2502 XP1213-7X
TRAYSET1
TRAYSET2
601T

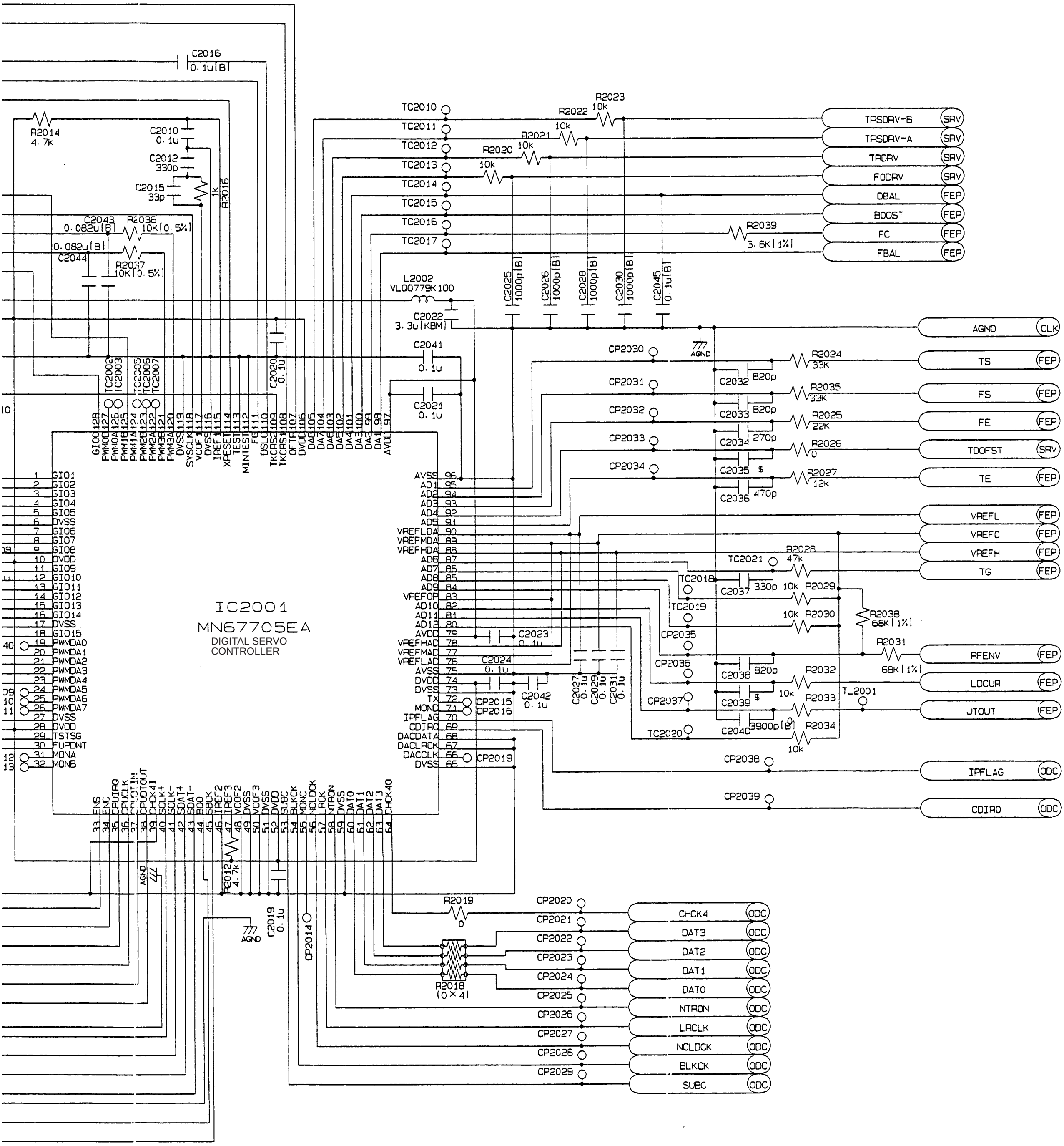
SCHEMATIC DIAGRAM-15

A DVD SERVO CIRCUIT (FOR GC/GN ONLY)

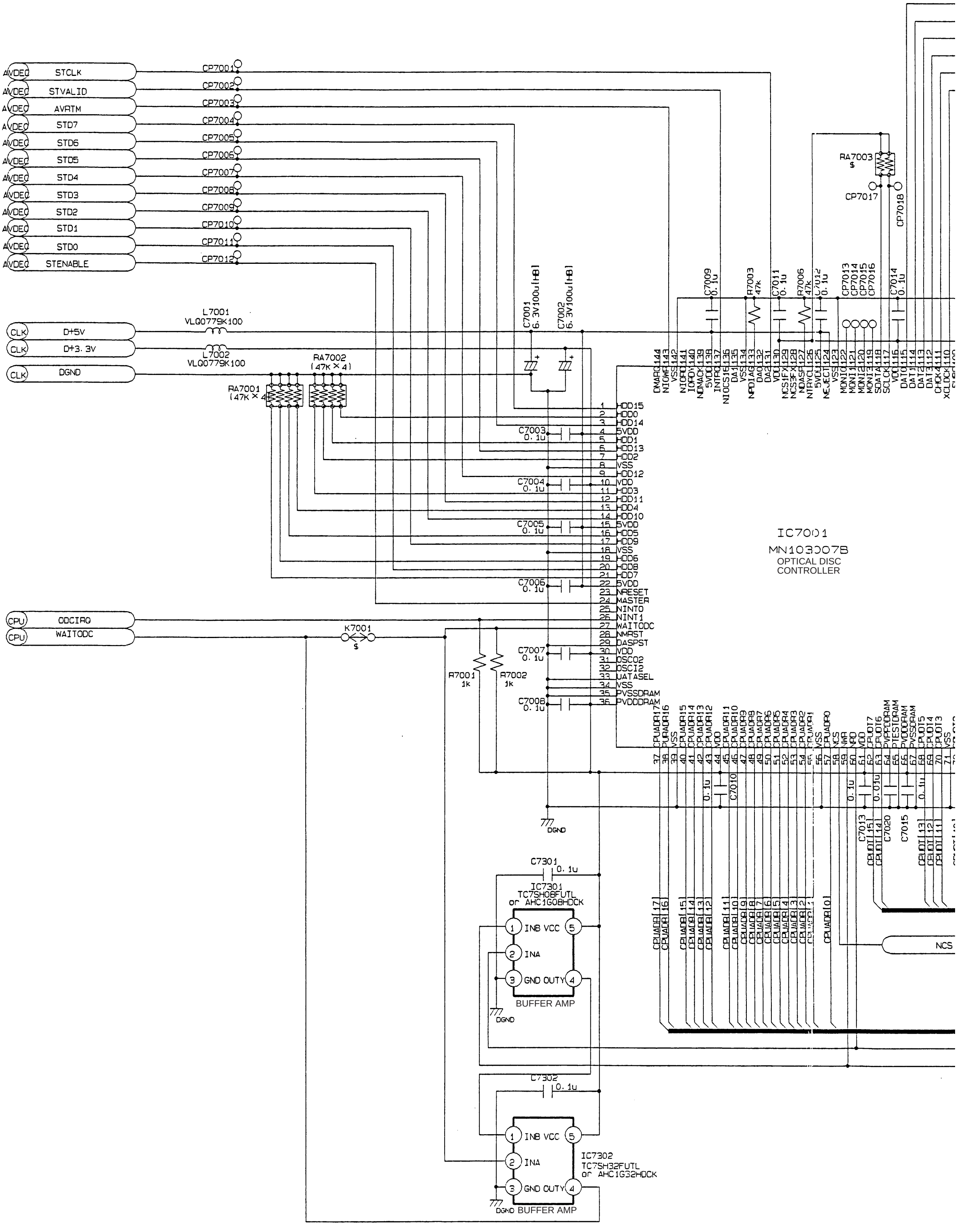


FEP OFTR
FEP TKC
FEP DSLO
SRV FG
CPU NRST
FEP CDDVD
CLK CLK338
SRV EC
SRV ECR
FEP FEPNTRON
SRV DD+3.3V
CLK D+3.3V
CLK DGND
SRV FGC
FEP LDONA
FEP LDONB
FEP PULIN
SRV DD+5V
FEP SRF
SRV TRAYSET1
SRV TRAYSET2
SRV DRVMUTE
SRV TRV-SW
SRV TRAY-CLOSE
SRV TRAY-OPEN
SRV SS
FEP HFMON
SRV BRK
ODC PLLOK
FEP TBAL
FEP GBAL
FEP BDOLVL
FEP OFTLVL
FEP TSTSG
FEP FUPDN
CPU CPSEN
CPU CPCEN
CPU CPUIRQ
CPU SBT1
CPU SBO1
CPU SBI1
FEP RDCKP
FEP RDCKN
FEP RDTP
FEP RDTN
FEP BDO
ODC SBCK
CP2002
CP2003
TC2001
C2016 0.1u[B]
R2014 4.7k
C2010 0.1u
C2012 330p
C2015 33p
R2016 1k
TC2004
C2043 0.082u[B]
R2036 10K[0.5%]
0.082u[B] C2044
R2037 10K[0.5%]
L2001 VLQ0779K100
C2006 6.3V100u[HB]
3.3u[KBM] C2001
DGND
R2011 (47K×2)
R2010 47k
R2001 10k
QR2001 UN5213-TX
C2008 0.1u
CP2001
CP2040
R2003 22K
R2004 12k
R2005 18K
R2006 8.2K
R2008 47k
R2009 47k
C2002 0.039u[B]
C2003 0.039u[B]
C2004 0.039u[B]
C2005 0.039u[B]
AGND
C2007 0.1u
CP2009
CP2010
CP2011
CP2012
CP2013
CP2005
CP2006
C2009 47p
CP2008
TC2002 TC2003 TC2005 TC2006 TC2007
C2020 0.1u
TC2010 TC2011 TC2012 TC2013 TC2014 TC2015 TC2016 TC2017
R2022 10k
R2021 10k
R2020 10k
L2002 VLQ0779K100
C2022 3.3u[KBM]
C2041 0.1u
C2021 0.1u
C2025 1000p[B]
C2026 1000p[B]
C2028 1000p[B]
C2023 0.1u
C2024 0.1u
C2042 0.1u
C2027 0.1u
C2029 0.1u
CP2015 CP2016
CP2019
IC2001
MN67705EA
DIGITAL SERVO CONTROLLER
1 GIO1, 2 GIO2, 3 GIO3, 4 GIO4, 5 GIO5, 6 DVSS, 7 GIO6, 8 GIO7, 9 GIO8, 10 DVDD, 11 GIO9, 12 GIO10, 13 GIO11, 14 GIO12, 15 GIO13, 16 GIO14, 17 DVSS, 18 GIO15, 19 PWMDA0, 20 PWMDA1, 21 PWMDA2, 22 PWMDA3, 23 PWMDA4, 24 PWMDA5, 25 PWMDA6, 26 PWMDA7, 27 DVSS, 28 DVDD, 29 TSTSG, 30 FUPDNT, 31 MONA, 32 MONB
33 ENS, 34 ENC, 35 CPUIRQ, 36 CPUCLK, 37 CPUDTIN, 38 CPUDTOUT, 39 CHCK41, 40 SCLK+, 41 SCLK-, 42 SDAT+, 43 SDAT-, 44 BDO, 45 SBCK, 46 IREF2, 47 IREF3, 48 VCOF2, 49 DVSS, 50 VCOF3, 51 DVSS, 52 DVDD, 53 SUBC, 54 BLKCK, 55 MONC, 56 NCLDCK, 57 LRCK, 58 NTRON, 59 DVSS, 60 DAT0, 61 DAT1, 62 DAT2, 63 DAT3, 64 CHCK40
65 DVSS, 66 DACCLK, 67 DACLRCK, 68 DACDATA, 69 CDIRQ, 70 IPFLAG, 71 MONO, 72 TX, 73 DVSS, 74 DVDD, 75 AVSS, 76 VREFLAO, 77 VREFMAO, 78 VREFHAO, 79 AVDD, 80 AD12, 81 AD11, 82 AD10, 83 VREFOR, 84 AD9, 85 AD8, 86 AD7, 87 AD6, 88 VREFHDA, 89 VREFMDA, 90 VREFLDA, 91 AD5, 92 AD4, 93 AD3, 94 AD2, 95 AD1, 96 AVSS
97 AVDD, 98 DA1, 99 DA2, 100 DA3, 101 DA4, 102 DA5, 103 DA6, 104 DA7, 105 DA8, 106 DVDD, 107 OFTR, 108 TKCRS1, 109 TKCRS2, 110 DSLO, 111 FG, 112 MINTEST, 113 TEST, 114 XRESET, 115 IREF1, 116 DVSS, 117 VCOF1, 118 SYSCLK, 119 DVSS, 120 PWM3A, 121 PWM3B, 122 PWM2A, 123 PWM2B, 124 PWM1A, 125 PWM1B, 126 PWM0A, 127 PWM0B, 128 GIO0
R2012 4.7k
C2019 0.1u
CP2014
R2019 0
R2018 (0×4)
CP2020 CP2021 CP2022 CP2023 CP2024 CP2025 CP2026 CP2027 CP2028 CP2029

SCHEMATIC DIAGRAM-16

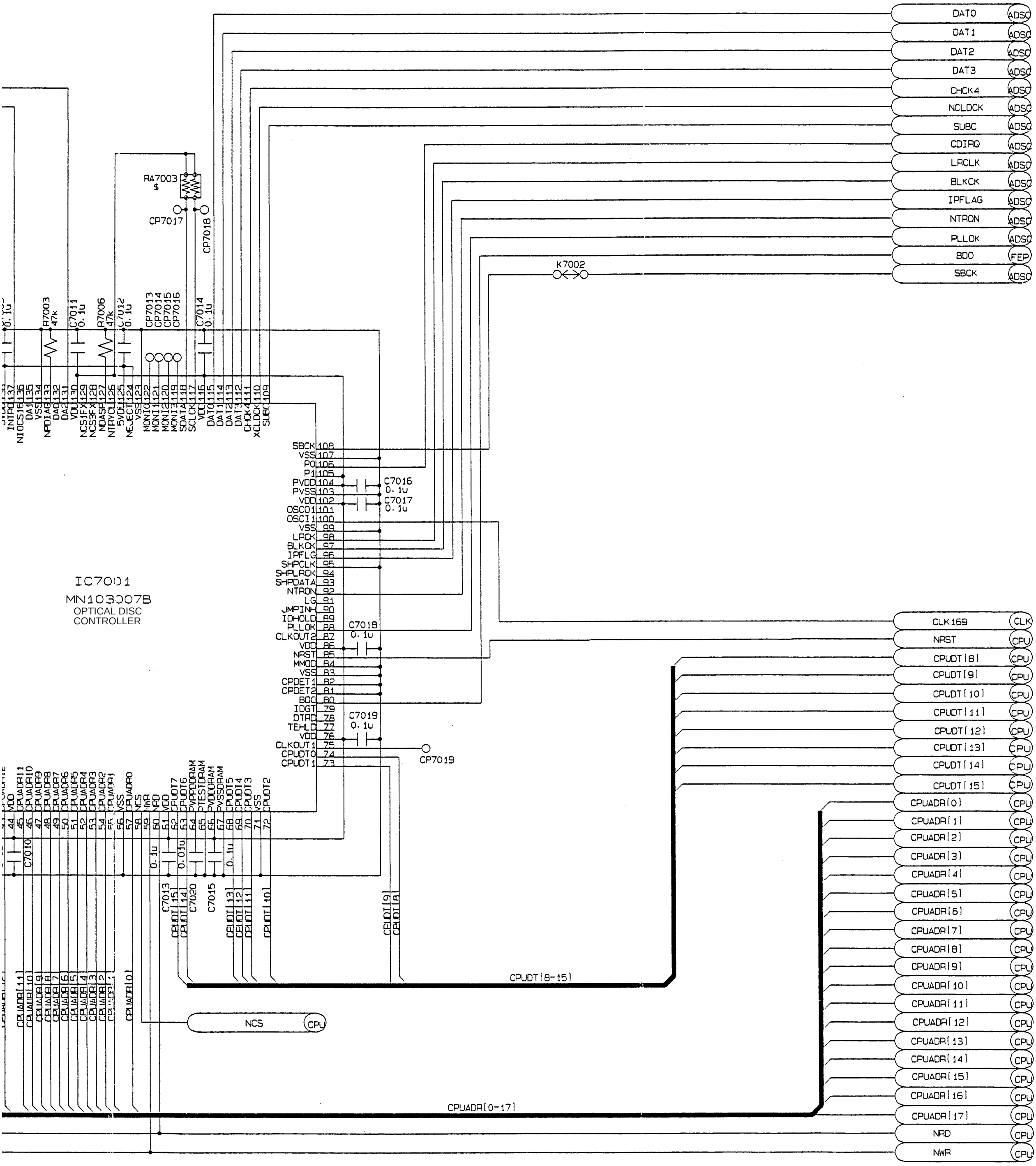

IC2001
MN67705EA
DIGITAL SERVO
CONTROLLER
C2016 0.1u(B)
R2014 4.7k
C2010 0.1u
C2012 330p
C2015 33p
R2016 1k
C2043 0.082u(B)
R2036 10k(0.5%)
0.082u(B) C2044
R2037 10k(0.5%)
TC2010
TC2011
TC2012
TC2013
TC2014
TC2015
TC2016
TC2017
R2023 10k
R2022 10k
R2021 10k
R2020 10k
R2039 3.6k(1%)
TRSDRV-B SRV
TRSDRV-A SRV
TRDRV SRV
FODRV SRV
DBAL FEP
BOOST FEP
FC FEP
FBAL FEP
L2002 VLG0779K100
C2022 3.3u(KBM)
C2025 1000p(B)
C2026 1000p(B)
C2028 1000p(B)
C2030 1000p(B)
C2045 0.1u(B)
AGND CLK
C2041 0.1u
C2021 0.1u
C2020 0.1u
CP2030
CP2031
CP2032
CP2033
CP2034
C2032 820p
C2033 820p
C2034 270p
C2035
C2036 470p
R2024 33K
R2035 33K
R2025 22K
R2026 0
R2027 12K
TS FEP
FS FEP
FE FEP
TDOFST SRV
TE FEP
VREFL FEP
VREFC FEP
VREFH FEP
TG FEP
TC2021
R2028 47k
TC2018
C2037 330p
R2029 10k
TC2019
R2030 10k
R2038 68K(1%)
CP2035
R2031 68K(1%)
RFENV FEP
CP2036
C2038 820p
R2032
LDCUR FEP
CP2037
C2039
R2033 10k
TL2001
JTOUT FEP
TC2020
C2040 3900p(B)
R2034 10k
C2023 0.1u
C2024 0.1u
C2042 0.1u
C2027 0.1u
C2029 0.1u
C2031 0.1u
CP2015
CP2016
CP2019
CP2038
IPFLAG ODC
CP2039
CDIRQ ODC
AVSS 96
AD1 95
AD2 94
AD3 93
AD4 92
AD5 91
VREFLDA 90
VREFMDA 89
VREFHDA 88
AD6 87
AD7 86
AD8 85
AD9 84
VREFOP 83
AD10 82
AD11 81
AD12 80
AVDD 79
VREFHAD 78
VREFMAD 77
VREFLAD 76
AVSS 75
DVDD 74
DVSS 73
TX 72
MONC 71
IPFLAG 70
CDIRQ 69
DACDATA 68
DACLRCK 67
DACCLK 66
DVSS 65
1 GIO1
2 GIO2
3 GIO3
4 GIO4
5 GIO5
6 DVSS
7 GIO6
8 GIO7
9 GIO8
10 DVDD
11 GIO9
12 GIO10
13 GIO11
14 GIO12
15 GIO13
16 GIO14
17 DVSS
18 GIO15
19 PWMDA0
20 PWMDA1
21 PWMDA2
22 PWMDA3
23 PWMDA4
24 PWMDA5
25 PWMDA6
26 PWMDA7
27 DVSS
28 DVDD
29 TSTSG
30 FUPDNT
31 MONA
32 MONB
GIO0128
PWM0B127
PWM0A126
PWM1B125
PWM1A124
PWM2B123
PWM2A122
PWM3B121
PWM3A120
DVSS119
SYSCLK118
VCOF1117
DVSS116
IREF1115
XRESET114
TEST113
MINTEST112
FG111
DSL0110
TKCRS2109
TKCRS1108
OFTR107
DVDD106
DA8105
DA7104
DA6103
DA5102
DA4101
DA3100
DA2 99
DA1 98
AVDD 97
TC2002
TC2003
TC2005
TC2006
TC2007
33 ENS
34 ENC
35 CPUIRQ
36 CPUCLK
37 CPUDTIN
38 CPUDTOUT
39 CHCK41
40 SCLK+
41 SCLK-
42 SDAT+
43 SDAT-
44 BOO
45 SBCK
46 IREF2
47 IREF3
48 VCOF2
49 DVSS
50 VCOF3
51 DVSS
52 DVDD
53 SUBC
54 BLKCK
55 MONC
56 NCLDCK
57 LRCK
58 NTRON
59 DVSS
60 DAT0
61 DAT1
62 DAT2
63 DAT3
64 CHCK40
AGND
R2012 4.7k
C2019 0.1u
CP2014
R2019 0
R2018 (0×4)
CP2020
CP2021
CP2022
CP2023
CP2024
CP2025
CP2026
CP2027
CP2028
CP2029
CHCK4 ODC
DAT3 ODC
DAT2 ODC
DAT1 ODC
DAT0 ODC
NTRON ODC
LRCLK ODC
NCLDCK ODC
BLKCK ODC
SUBC ODC

SCHEMATIC DIAGRAM-13



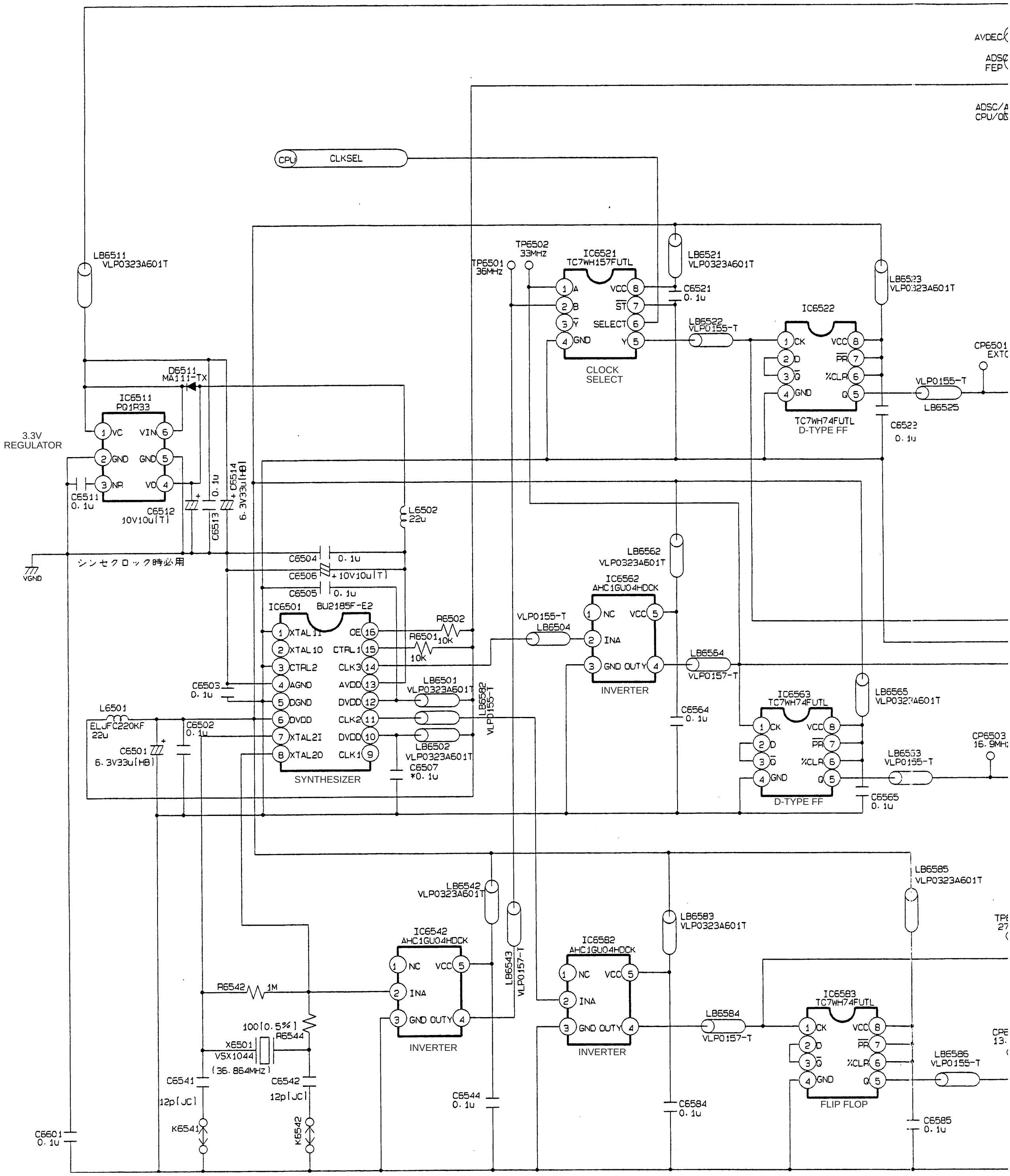
AVDEC STCLK
AVDEC STVALID
AVDEC AVRTM
AVDEC STD7
AVDEC STD6
AVDEC STD5
AVDEC STD4
AVDEC STD3
AVDEC STD2
AVDEC STD1
AVDEC STD0
AVDEC STENABLE
CP7001
CP7002
CP7003
CP7004
CP7005
CP7006
CP7007
CP7008
CP7009
CP7010
CP7011
CP7012
CLK D+5V
CLK D+3. 3V
CLK DGND
L7001
VLQ0779K100
L7002
VLQ0779K100
C7001
6. 3V100u[HB]
C7002
6. 3V100u[HB]
RA7001
(47K × 4)
RA7002
(47K × 4)
RA7003
$
CP7017
CP7018
C7009
0. 1u
R7003
47k
C7011
0. 1u
R7006
47k
C7012
0. 1u
CP7013
CP7014
CP7015
CP7016
C7014
0. 1u
DMARQ 144
NIOWR 143
VSS 142
NIORD 141
IORDY 140
NDMACK 139
5VDD 138
INTRQ 137
NIOCS16 136
DA1 135
VSS 134
NPDIAG 133
DA0 132
DA2 131
VDD 130
NCS1FX 129
NCS3FX 128
NDASP 127
NTRYCL 126
5VDD 125
NEJECT 124
VSS 123
MONI0 122
MONI1 121
MONI2 120
MONI3 119
SDATA 118
SCLCK 117
VDD 116
DAT0 115
DAT1 114
DAT2 113
DAT3 112
CHCK4 111
XCLDCK 110
1 HDD15
2 HDD0
3 HDD14
4 5VDD
5 HDD1
6 HDD13
7 HDD2
8 VSS
9 HDD12
10 VDD
11 HDD3
12 HDD11
13 HDD4
14 HDD10
15 5VDD
16 HDD5
17 HDD9
18 VSS
19 HDD6
20 HDD8
21 HDD7
22 5VDD
23 NRESET
24 MASTER
25 NINT0
26 NINT1
27 WAITODC
28 NMRST
29 DASPST
30 VDD
31 OSCO2
32 OSCI2
33 UATASEL
34 VSS
35 PVSSDRAM
36 PVDDDRAM
C7003
0. 1u
C7004
0. 1u
C7005
0. 1u
C7006
0. 1u
C7007
0. 1u
C7008
0. 1u
IC7001
MN103007B
OPTICAL DISC
CONTROLLER
CPU ODCIRQ
CPU WAITODC
K7001
$
R7001
1k
R7002
1k
DGND
37 CPUADR17
38 CPUADR16
39 VSS
40 CPUADR15
41 CPUADR14
42 CPUADR13
43 CPUADR12
44 VDD
45 CPUADR11
46 CPUADR10
47 CPUADR9
48 CPUADR8
49 CPUADR7
50 CPUADR6
51 CPUADR5
52 CPUADR4
53 CPUADR3
54 CPUADR2
55 CPUADR1
56 VSS
57 CPUADR0
58 NCS
59 NWR
60 NRD
61 VDD
62 CPUDT7
63 CPUDT6
64 PVPPDDRAM
65 PTESTDRAM
66 PVDDDRAM
67 PVSSDRAM
68 CPUDT5
69 CPUDT4
70 CPUDT3
71 VSS
0. 1u
C7010
0. 1u
C7013
0. 01u
C7020
C7015
0. 1u
CPUDT[15]
CPUDT[14]
CPUDT[13]
CPUDT[12]
CPUDT[11]
CPUADR[17]
CPUADR[16]
CPUADR[15]
CPUADR[14]
CPUADR[13]
CPUADR[12]
CPUADR[11]
CPUADR[10]
CPUADR[9]
CPUADR[8]
CPUADR[7]
CPUADR[6]
CPUADR[5]
CPUADR[4]
CPUADR[3]
CPUADR[2]
CPUADR[1]
CPUADR[0]
NCS
C7301
0. 1u
IC7301
TC7SH08FUTL
or AHC1G08HDCK
1 INB VCC 5
2 INA
3 GND OUTY 4
BUFFER AMP
DGND
C7302
0. 1u
1 INB VCC 5
2 INA
3 GND OUTY 4
IC7302
TC7SH32FUTL
or AHC1G32HDCK
DGND BUFFER AMP

SCHEMATIC DIAGRAM-14

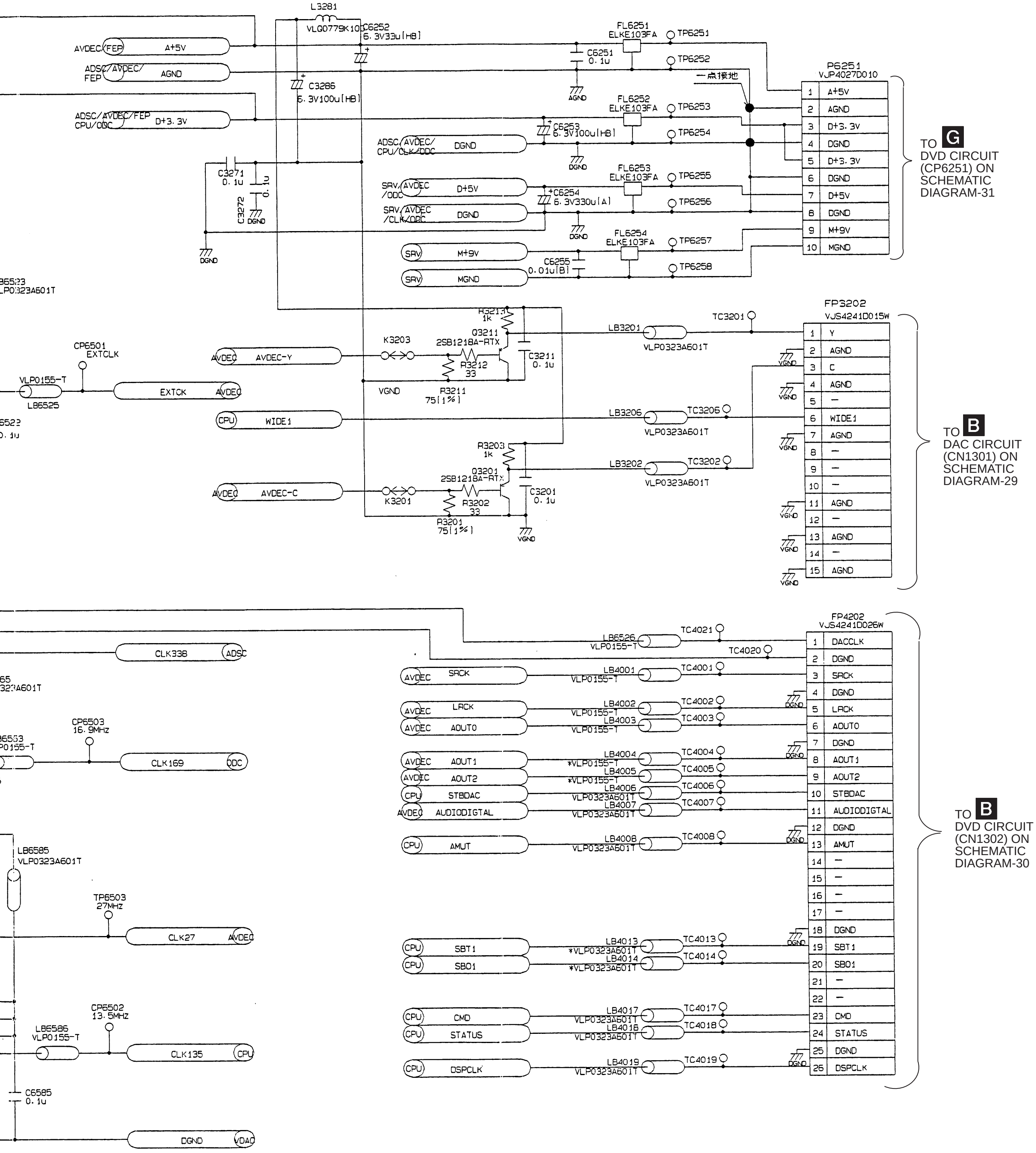


IC7001
MN103007B
OPTICAL DISC
CONTROLLER
DAT0 ADSC
DAT1 ADSC
DAT2 ADSC
DAT3 ADSC
CHCK4 ADSC
NCLDCK ADSC
SUBC ADSC
CDIRQ ADSC
LRCLK ADSC
BLKCK ADSC
IPFLAG ADSC
NTRON ADSC
PLLOK ADSC
BDO FEP
SBCK ADSC
K7002
RA7003
CP7017
CP7018
R7003 47k
C7011 0.1u
R7006 47k
C7012 0.1u
CP7013
CP7014
CP7015
CP7016
C7014 0.1u
INTRQ 137
NIOCS16 136
DA1 135
VSS 134
NPDIAG 133
DA0 132
DA2 131
VDD 130
NCS1FX 129
NCS3FX 128
NDASP 127
NTRYCL 126
5VDD 125
NEJECT 124
VSS 123
MONI0 122
MONI1 121
MONI2 120
MONI3 119
SDATA 118
SCLCK 117
VDD 116
DAT0 115
DAT1 114
DAT2 113
DAT3 112
CHCK4 111
XCLOCK 110
SUBC 109
SBCK 108
VSS 107
P0 106
P1 105
PVDD 104
PVSS 103
VDD 102
OSCO1 101
OSCI1 100
VSS 99
LRCK 98
BLKCK 97
IPFLG 96
SHPCLK 95
SHPLRCK 94
SHPDATA 93
NTRON 92
LG 91
JMPINH 90
IDHOLD 89
PLLOK 88
CLKOUT2 87
VDD 86
NRST 85
MMOD 84
VSS 83
CPDET1 82
CPDET2 81
BDO 80
IDGT 79
DTRD 78
TEHLD 77
VDD 76
CLKOUT1 75
CPUDT0 74
CPUDT1 73
C7016 0.1u
C7017 0.1u
C7018 0.1u
C7019 0.1u
CP7019
VDD 44
CPUADR11 45
CPUADR10 46
CPUADR9 47
CPUADR8 48
CPUADR7 49
CPUADR6 50
CPUADR5 51
CPUADR4 52
CPUADR3 53
CPUADR2 54
CPUADR1 55
VSS 56
CPUADR0 57
NCS 58
NWR 59
NRD 60
VDD 61
CPUDT7 62
CPUDT6 63
PVPPDRAM 64
PTESTDRAM 65
PVDDDRAM 66
PVSSDRAM 67
CPUDT5 68
CPUDT4 69
CPUDT3 70
VSS 71
CPUDT2 72
C7010
0.1u
0.01u
0.1u
C7013
C7020
C7015
CPUDT[15]
CPUDT[14]
CPUDT[13]
CPUDT[12]
CPUDT[11]
CPUDT[10]
CPUDT[9]
CPUDT[8]
CPUDT[8-15]
CPUADR[11]
CPUADR[10]
CPUADR[9]
CPUADR[8]
CPUADR[7]
CPUADR[6]
CPUADR[5]
CPUADR[4]
CPUADR[3]
CPUADR[2]
CPUADR[1]
CPUADR[0]
NCS CPU
CPUADR[0-17]
CLK169 CLK
NRST CPU
CPUDT[8] CPU
CPUDT[9] CPU
CPUDT[10] CPU
CPUDT[11] CPU
CPUDT[12] CPU
CPUDT[13] CPU
CPUDT[14] CPU
CPUDT[15] CPU
CPUADR[0] CPU
CPUADR[1] CPU
CPUADR[2] CPU
CPUADR[3] CPU
CPUADR[4] CPU
CPUADR[5] CPU
CPUADR[6] CPU
CPUADR[7] CPU
CPUADR[8] CPU
CPUADR[9] CPU
CPUADR[10] CPU
CPUADR[11] CPU
CPUADR[12] CPU
CPUADR[13] CPU
CPUADR[14] CPU
CPUADR[15] CPU
CPUADR[16] CPU
CPUADR[17] CPU
NRD CPU
NWR CPU

SCHEMATIC DIAGRAM-11


AVDEC
ADSC
FEP
ADSC/A
CPU/OC
CPU
CLKSEL
LB6511
VLP0323A601T
TP6501
36MHz
TP6502
33MHz
IC6521
TC7WH157FUTL
A
B
Y
GND
VCC
ST
SELECT
Y
CLOCK SELECT
LB6521
VLP0323A601T
C6521
0. 1u
LB6522
VLP0155-T
LB6523
VLP0323A601T
IC6522
CK
D
Q
GND
VCC
PR
CLR
Q
TC7WH74FUTL
D-TYPE FF
C6522
0. 1u
CP6501
EXTC
VLP0155-T
LB6525
D6511
MA111-TX
IC6511
P01R33
VC
GND
NR
VIN
GND
VO
3.3V
REGULATOR
C6511
0. 1u
C6512
10V10u(T)
C6513
0. 1u
C6514
6. 3V33u(HB)
L6502
22u
VGND
シンセクロック時必用
C6504
0. 1u
C6506
10V10u(T)
C6505
0. 1u
IC6501
BU2185F-E2
XTAL1I
XTAL1O
CTRL2
AGND
DGND
DVDD
XTAL2I
XTAL2O
OE
CTRL1
CLK3
AVDD
DVDD
CLK2
DVDD
CLK1
SYNTHESIZER
R6502
10K
R6501
10K
C6503
0. 1u
L6501
ELJFC220KF
22u
C6501
6. 3V33u(HB)
C6502
0. 1u
LB6501
VLP0323A601T
LB6502
VLP0323A601T
LB6582
VLP0155-T
C6507
*0. 1u
VLP0155-T
LB6504
LB6562
VLP0323A601T
IC6562
AHC1GU04HDCK
NC
INA
GND OUTY
VCC
INVERTER
LB6564
VLP0157-T
C6564
0. 1u
IC6563
TC7WH74FUTL
CK
D
Q
GND
VCC
PR
CLR
Q
D-TYPE FF
LB6565
VLP0323A601T
CP6503
16. 9MHz
LB6563
VLP0155-T
C6565
0. 1u
LB6542
VLP0323A601T
IC6542
AHC1GU04HDCK
NC
INA
GND OUTY
VCC
INVERTER
LB6543
VLP0157-T
R6542
1M
100(0. 5%)
R6544
X6501
VSX1044
(36. 864MHz)
C6541
12p(JC)
C6542
12p(JC)
K6541
K6542
C6544
0. 1u
C6601
0. 1u
IC6582
AHC1GU04HDCK
NC
INA
GND OUTY
VCC
INVERTER
LB6583
VLP0323A601T
LB6584
VLP0157-T
C6584
0. 1u
LB6585
VLP0323A601T
IC6583
TC7WH74FUTL
CK
D
Q
GND
VCC
PR
CLR
Q
FLIP FLOP
LB6586
VLP0155-T
C6585
0. 1u
TP
27
CP
13.

SCHEMATIC DIAGRAM-12

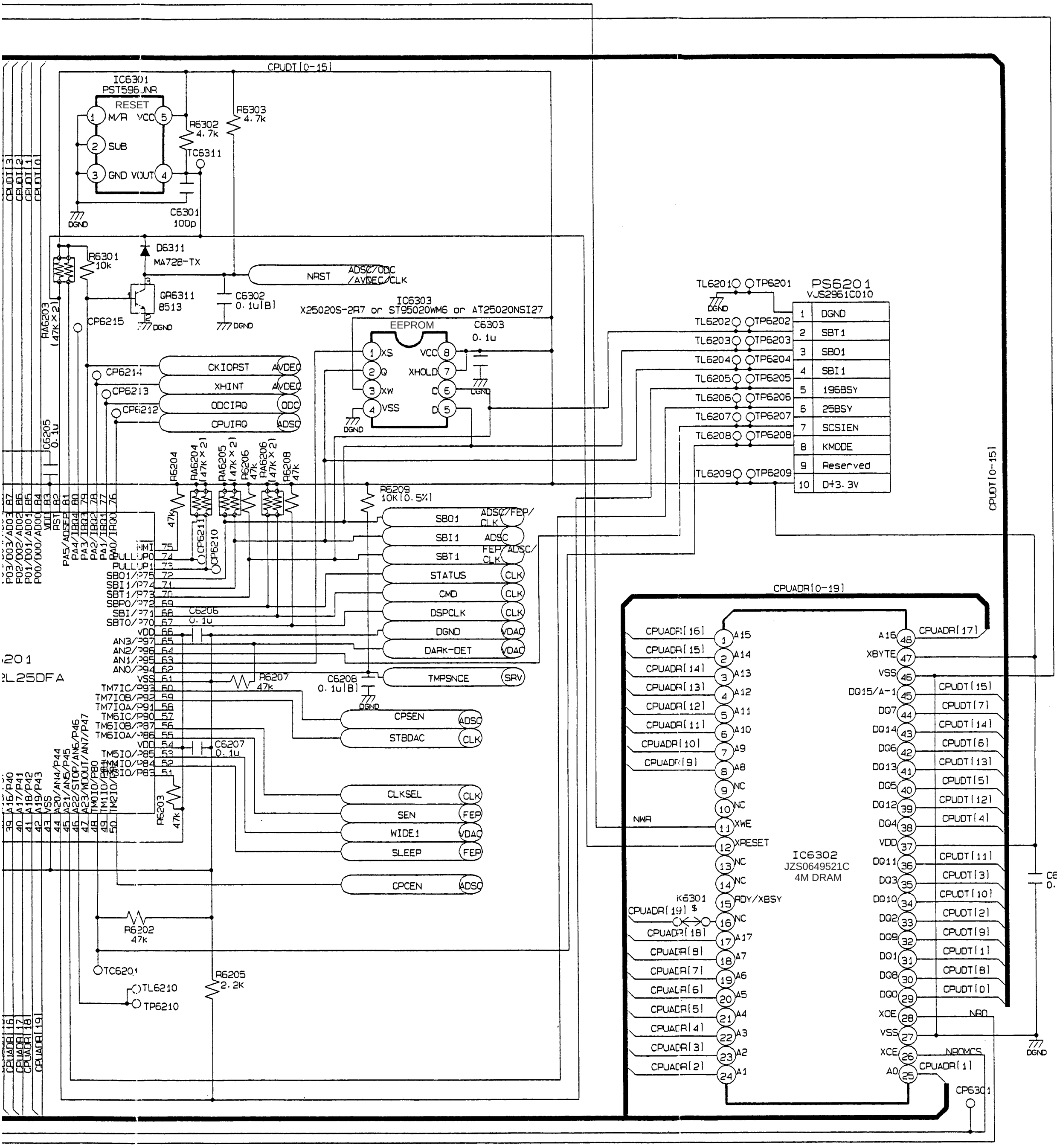

L3281
VLQ0779K101
C6252
6.3V33u[HB]
C3286
6.3V100u[HB]
AVDEC/FEP A+5V
ADSC/AVDEC/FEP AGND
ADSC/AVDEC/FEP CPU/ODC D+3.3V
ADSC/AVDEC/CPU/CLK/ODC DGND
SRV/AVDEC/ODC D+5V
SRV/AVDEC/CLK/ODC DGND
SRV M+9V
SRV MGND
C3271 0.1u
C3272 0.1u
FL6251 ELKE103FA
FL6252 ELKE103FA
FL6253 ELKE103FA
FL6254 ELKE103FA
C6251 0.1u
C6253 6.3V100u[HB]
C6254 6.3V330u[A]
C6255 0.01u[B]
TP6251
TP6252
TP6253
TP6254
TP6255
TP6256
TP6257
TP6258
一点接地
P6251
VJP4027D010
1 A+5V
2 AGND
3 D+3.3V
4 DGND
5 D+3.3V
6 DGND
7 D+5V
8 DGND
9 M+9V
10 MGND
AGND
DGND
VGND
LB6523
VLP0323A601T
CP6501 EXTCLK
VLP0155-T
LB6525
EXTCK AVDEC
6522
0.1u
K3203
AVDEC AVDEC-Y
R3213 1k
Q3211 2SB1218A-RTX
R3212 33
R3211 75[1%]
C3211 0.1u
CPU WIDE1
R3203 1k
Q3201 2SB1218A-RTX
R3202 33
R3201 75[1%]
C3201 0.1u
K3201
AVDEC AVDEC-C
LB3201 VLP0323A601T
LB3206 VLP0323A601T
LB3202 VLP0323A601T
TC3201
TC3206
TC3202
FP3202
VJS4241D015W
1 Y
2 AGND
3 C
4 AGND
5 —
6 WIDE1
7 AGND
8 —
9 —
10 —
11 AGND
12 —
13 AGND
14 —
15 AGND
CLK338 ADSC
65
VLP0323A601T
CP6503 16.9MHz
LB6533
VLP0155-T
CLK169 ODC
LB6585
VLP0323A601T
TP6503 27MHz
CLK27 AVDEC
CP6502 13.5MHz
LB6586
VLP0155-T
CLK135 CPU
C6585 0.1u
DGND VDAC
LB6526 VLP0155-T
TC4021
TC4020
AVDEC SRCK
AVDEC LRCK
AVDEC AOUT0
AVDEC AOUT1
AVDEC AOUT2
CPU STBDAC
AVDEC AUDIODIGTAL
CPU AMUT
CPU SBT1
CPU SBO1
CPU CMD
CPU STATUS
CPU DSPCLK
LB4001 VLP0155-T
LB4002 VLP0155-T
LB4003 VLP0155-T
LB4004 *VLP0155-T
LB4005 *VLP0155-T
LB4006 VLP0323A601T
LB4007 VLP0323A601T
LB4008 VLP0323A601T
LB4013 *VLP0323A601T
LB4014 *VLP0323A601T
LB4017 VLP0323A601T
LB4018 VLP0323A601T
LB4019 VLP0323A601T
TC4001
TC4002
TC4003
TC4004
TC4005
TC4006
TC4007
TC4008
TC4013
TC4014
TC4017
TC4018
TC4019
FP4202
VJS4241D026W
1 DACCLK
2 DGND
3 SRCK
4 DGND
5 LRCK
6 AOUT0
7 DGND
8 AOUT1
9 AOUT2
10 STBDAC
11 AUDIODIGTAL
12 DGND
13 AMUT
14 —
15 —
16 —
17 —
18 DGND
19 SBT1
20 SBO1
21 —
22 —
23 CMD
24 STATUS
25 DGND
26 DSPCLK

TO G
DVD CIRCUIT
(CP6251) ON
SCHEMATIC
DIAGRAM-31

TO B
DAC CIRCUIT
(CN1301) ON
SCHEMATIC
DIAGRAM-29

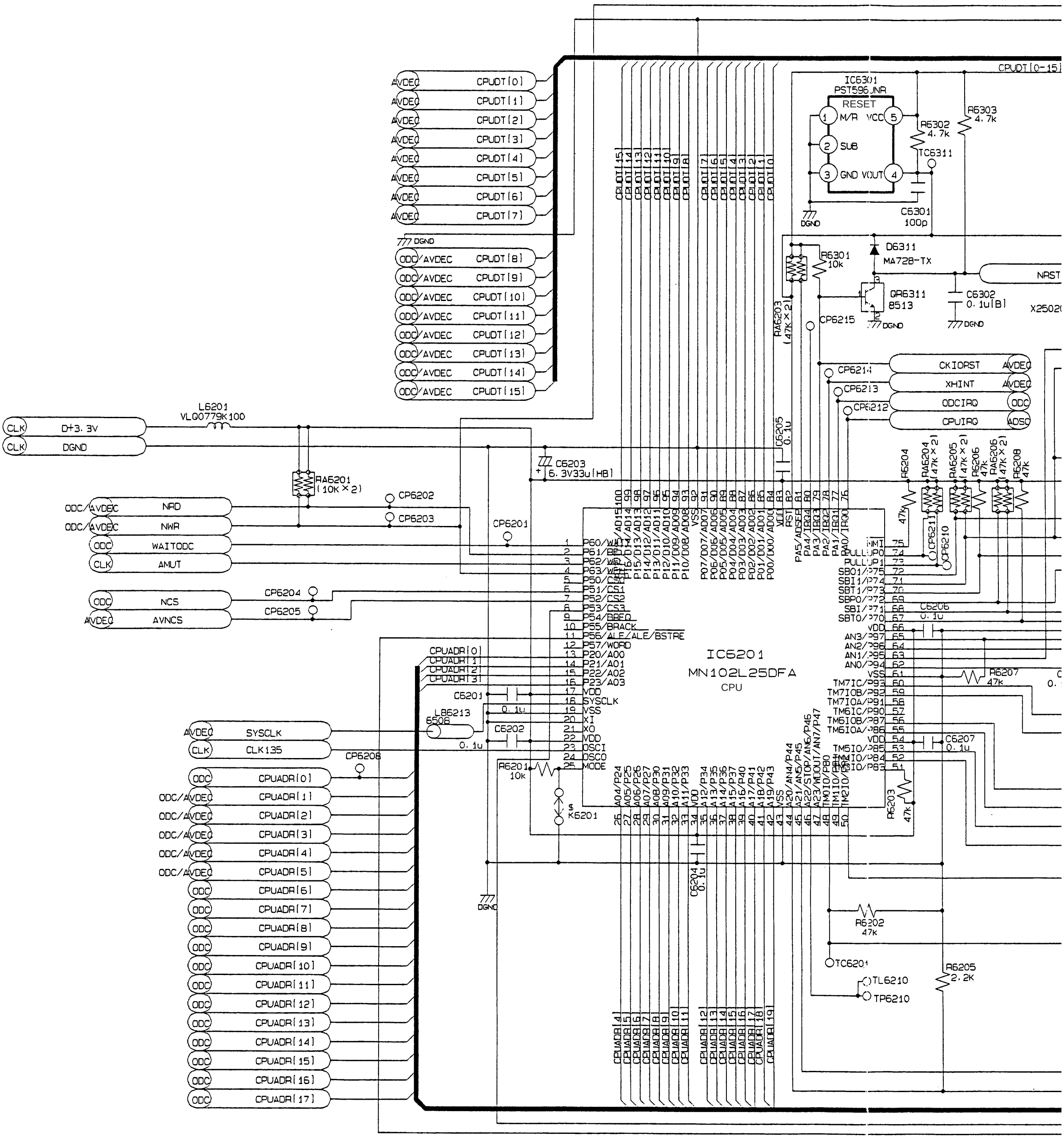
TO B
DVD CIRCUIT
(CN1302) ON
SCHEMATIC
DIAGRAM-30

SCHEMATIC DIAGRAM-10



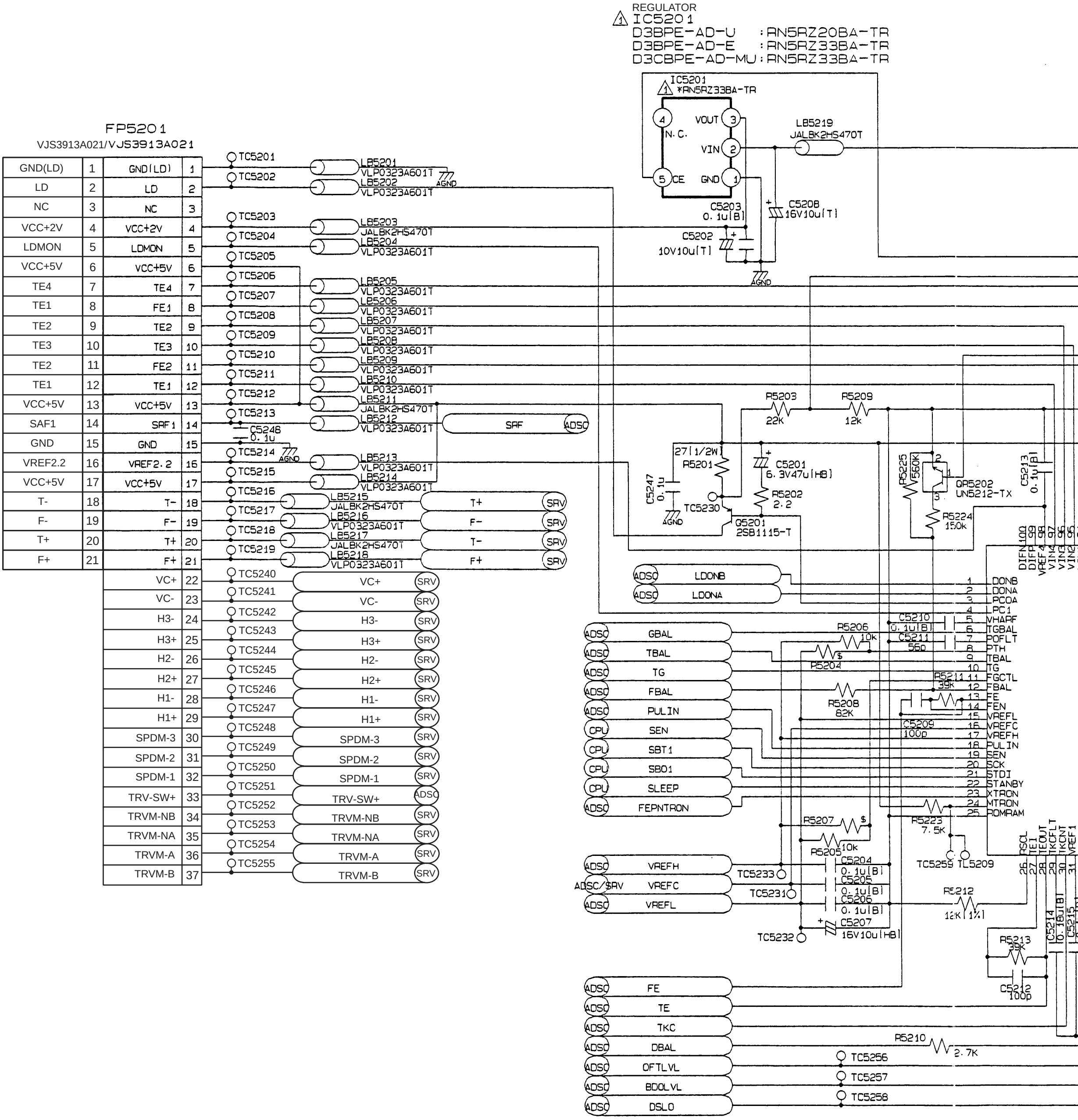
CPUDT[0-15]
IC6301
PST596JNR
RESET
M/R
VCC
SUB
GND
VOUT
DGND
R6302
4.7k
R6303
4.7k
TC6311
C6301
100p
D6311
MA728-TX
R6301
10k
QR6311
8513
C6302
0.1u[B]
NRST
ADSC/ODC
/AVDEC/CLK
RA6203
(47K×2)
CP6215
IC6303
X25020S-2R7 or ST95020WM6 or AT25020NSI27
EEPROM
C6303
0.1u
XS
Q
XW
VSS
VCC
XHOLD
C
D
CP6214
CKIOPST
AVDEC
CP6213
XHINT
CP6212
ODCIRQ
ODC
CPUIRQ
ADSC
C6205
0.1u
CPUDT[3]
CPUDT[2]
CPUDT[1]
CPUDT[0]
R6204
47k
RA6204
(47K×2)
RA6205
(47K×2)
R6205
47k
RA6206
(47K×2)
R6208
47k
R6209
10K(0.5%)
CP6211
CP6210
SBO1
SBI1
SBT1
STATUS
CMD
DSPCLK
DGND
DARK-DET
TMPSNCE
CPSEN
STBDAC
CLKSEL
SEN
WIDE1
SLEEP
CPCEN
ADSC/FEP/CLK
ADSC
FEP/ADSC/CLK
CLK
VDAC
SRV
FEP
P03/D03/AD03 87
P02/D02/AD02 86
P01/D01/AD01 85
P00/D00/AD00 84
VDD 83
RST 82
PA5/ADSEP 81
PA4/IRQ4 80
PA3/IRQ3 79
PA2/IRQ2 78
PA1/IRQ1 77
PA0/IRQ0 76
NMI 75
PULLUP0 74
PULLUP1 73
SBO1/P75 72
SBI1/P74 71
SBT1/P73 70
SBO0/P72 69
SBI/P71 68
SBT0/P70 67
VDD 66
AN3/P97 65
AN2/P96 64
AN1/P95 63
AN0/P94 62
VSS 61
TM7IC/P93 60
TM7IOB/P92 59
TM7IOA/P91 58
TM6IC/P90 57
TM6IOB/P87 56
TM6IOA/P86 55
VDD 54
TM5IO/P85 53
TM4IO/P84 52
TM3IO/P83 51
C6206
0.1u
R6207
47k
C6208
0.1u[B]
C6207
0.1u
R6203
47k
39 A16/P40
40 A17/P41
41 A18/P42
42 A19/P43
43 VSS
44 A20/AN4/P44
45 A21/AN5/P45
46 A22/STOP/AN6/P46
47 A23/WDOUT/AN7/P47
48 TM0IO/P80
49 TM1IO/P81
50 TM2IO/P82
201
L25DFA
R6202
47k
TC6201
TL6210
TP6210
R6205
2.2K
CPUADR[16]
CPUADR[17]
CPUADR[18]
CPUADR[19]
TL6201
TP6201
PS6201
VJS2961C010
DGND
TL6202
TP6202
TL6203
TP6203
TL6204
TP6204
TL6205
TP6205
TL6206
TP6206
TL6207
TP6207
TL6208
TP6208
TL6209
TP6209
1 DGND
2 SBT1
3 SBO1
4 SBI1
5 19SBSY
6 25BSY
7 SCSIEN
8 KMODE
9 Reserved
10 D+3.3V
CPUDT[0-15]
CPUADR[0-19]
IC6302
JZS0649521C
4M DRAM
CPUADR[16] 1 A15
CPUADR[15] 2 A14
CPUADR[14] 3 A13
CPUADR[13] 4 A12
CPUADR[12] 5 A11
CPUADR[11] 6 A10
CPUADR[10] 7 A9
CPUADR[9] 8 A8
9 NC
10 NC
NWR 11 XWE
12 XRESET
13 NC
14 NC
K6301
15 RDY/XBSY
CPUADR[19] 16 NC
CPUADR[18] 17 A17
CPUADR[8] 18 A7
CPUADR[7] 19 A6
CPUADR[6] 20 A5
CPUADR[5] 21 A4
CPUADR[4] 22 A3
CPUADR[3] 23 A2
CPUADR[2] 24 A1
A16 48 CPUADR[17]
XBYTE 47
VSS 46
DQ15/A-1 45 CPUDT[15]
DQ7 44 CPUDT[7]
DQ14 43 CPUDT[14]
DQ6 42 CPUDT[6]
DQ13 41 CPUDT[13]
DQ5 40 CPUDT[5]
DQ12 39 CPUDT[12]
DQ4 38 CPUDT[4]
VDD 37
DQ11 36 CPUDT[11]
DQ3 35 CPUDT[3]
DQ10 34 CPUDT[10]
DQ2 33 CPUDT[2]
DQ9 32 CPUDT[9]
DQ1 31 CPUDT[1]
DQ8 30 CPUDT[8]
DQ0 29 CPUDT[0]
XOE 28 NRD
VSS 27
XCE 26 NROMCS
A0 25 CPUADR[1]
C6304
0.1u
DGND
CP6301

SCHEMATIC DIAGRAM-9

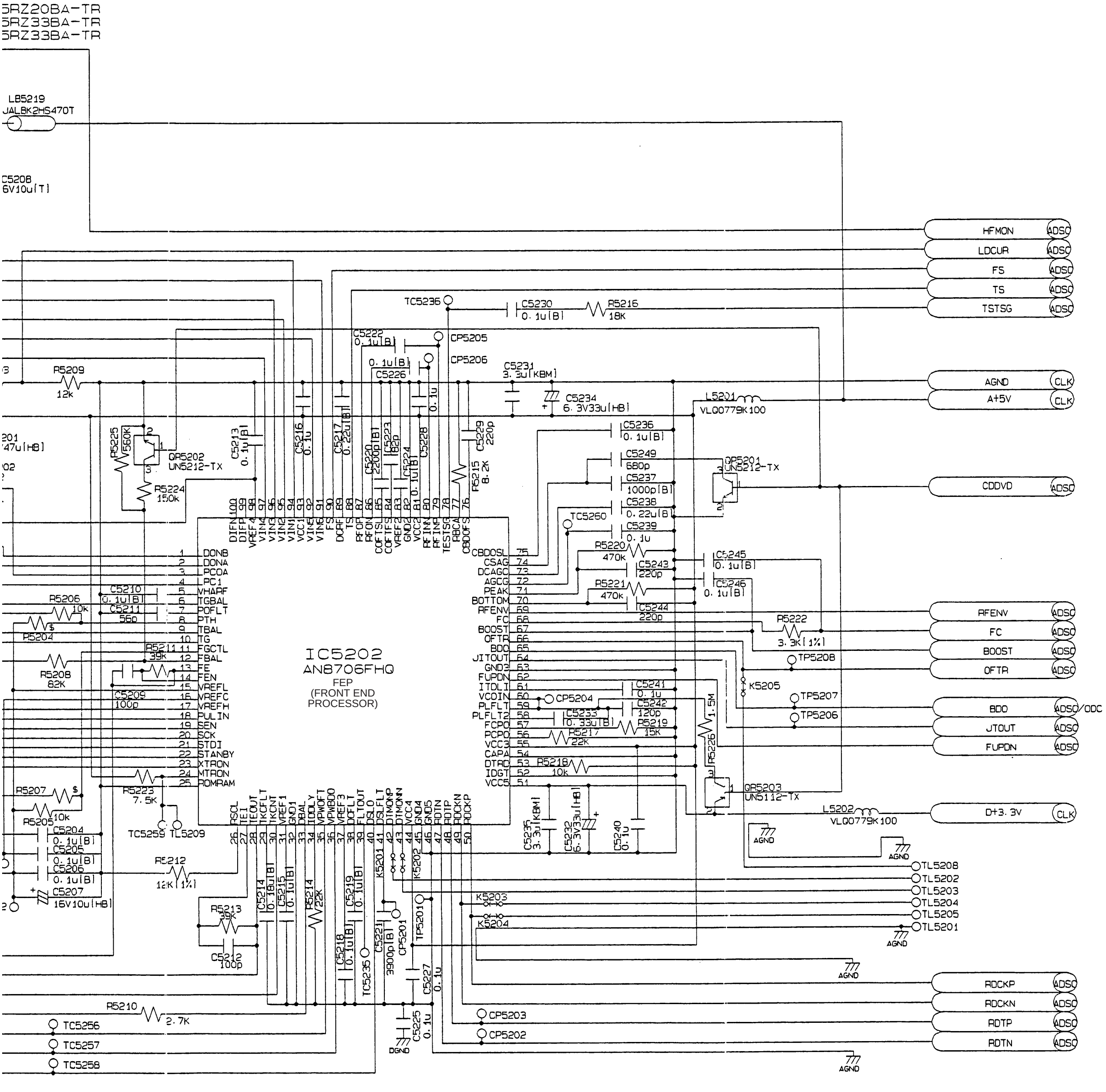


CPUDT[0-15]
AVDEC CPUDT[0]
AVDEC CPUDT[1]
AVDEC CPUDT[2]
AVDEC CPUDT[3]
AVDEC CPUDT[4]
AVDEC CPUDT[5]
AVDEC CPUDT[6]
AVDEC CPUDT[7]
DGND
ODC/AVDEC CPUDT[8]
ODC/AVDEC CPUDT[9]
ODC/AVDEC CPUDT[10]
ODC/AVDEC CPUDT[11]
ODC/AVDEC CPUDT[12]
ODC/AVDEC CPUDT[13]
ODC/AVDEC CPUDT[14]
ODC/AVDEC CPUDT[15]
L6201
VLQ0779K100
CLK D+3.3V
CLK DGND
C6203
6.3V33u[HB]
RA6201
(10K×2)
CP6202
CP6203
CP6201
ODC/AVDEC NRD
ODC/AVDEC NWR
ODC WAITODC
CLK AMUT
CP6204
CP6205
ODC NCS
AVDEC AVNCS
IC6301
PST596JNR
RESET
M/R VCC
SUB
GND VOUT
R6302
4.7k
R6303
4.7k
TC6311
C6301
100p
DGND
D6311
MA728-TX
R6301
10k
QR6311
8513
C6302
0.1u[B]
NRST
X2502
RA6203
(47K×2)
CP6215
CP6214
CP6213
CP6212
CKIORST AVDEC
XHINT AVDEC
ODCIRQ ODC
CPUIRQ ADSC
C6205
0.1u
R6204
47k
RA6204
47k×2
RA6205
47k×2
R6206
47k
RA6206
47k×2
R6208
47k
CP6211
CP6210
IC6201
MN102L25DFA
CPU
P60/WAIT
P61/RE
P62/WE
P63/WEH
P50/CS0
P51/CS1
P52/CS2
P53/CS3
P54/BREQ
P55/BRACK
P56/ALE/ALE/BSTRE
P57/WORD
P20/A00
P21/A01
P22/A02
P23/A03
VDD
SYSCLK
VSS
XI
XO
OSCI
VDD
OSCO
MODE
P17/D15/AD15
P16/D14/AD14
P15/D13/AD13
P14/D12/AD12
P13/D11/AD11
P12/D10/AD10
P11/D09/AD09
P10/D08/AD08
VSS
P07/D07/AD07
P06/D06/AD06
P05/D05/AD05
P04/D04/AD04
P03/D03/AD03
P02/D02/AD02
P01/D01/AD01
P00/D00/AD00
VDD
RST
PA5/ADSEP
PA4/IRQ4
PA3/IRQ3
PA2/IRQ2
PA1/IRQ1
PA0/IRQ0
NMI
PULLUP0
PULLUP1
SBO1/P75
SBI1/P74
SBT1/P73
SBO0/P72
SBI/P71
SBT0/P70
VDD
AN3/P97
AN2/P96
AN1/P95
AN0/P94
VSS
TM7IC/P93
TM7IOB/P92
TM7IOA/P91
TM6IC/P90
TM6IOB/P87
TM6IOA/P86
VDD
TM5IO/P85
TM4IO/P84
TM3IO/P83
A04/P24
A05/P25
A06/P26
A07/P27
A08/P30
A09/P31
A10/P32
A11/P33
VDD
A12/P34
A13/P35
A14/P36
A15/P37
A16/P40
A17/P41
A18/P42
A19/P43
VSS
A20/AN4/P44
A21/AN5/P45
A22/STOP/AN6/P46
A23/WDOUT/AN7/P47
TM1IO/P80
TM2IO/P81
C6206
0.1u
R6207
47k
C6207
0.1u
R6203
47k
C6201
0.1u
C6202
0.1u
LB6213
6506
R6201
10k
K6201
C6204
0.1u
R6202
47k
TC6201
TL6210
TP6210
R6205
2.2K
AVDEC SYSCLK
CLK CLK135
CP6208
CPUADR[0]
CPUADR[1]
CPUADR[2]
CPUADR[3]
ODC CPUADR[0]
ODC/AVDEC CPUADR[1]
ODC/AVDEC CPUADR[2]
ODC/AVDEC CPUADR[3]
ODC/AVDEC CPUADR[4]
ODC/AVDEC CPUADR[5]
ODC CPUADR[6]
ODC CPUADR[7]
ODC CPUADR[8]
ODC CPUADR[9]
ODC CPUADR[10]
ODC CPUADR[11]
ODC CPUADR[12]
ODC CPUADR[13]
ODC CPUADR[14]
ODC CPUADR[15]
ODC CPUADR[16]
ODC CPUADR[17]

SCHEMATIC DIAGRAM-7

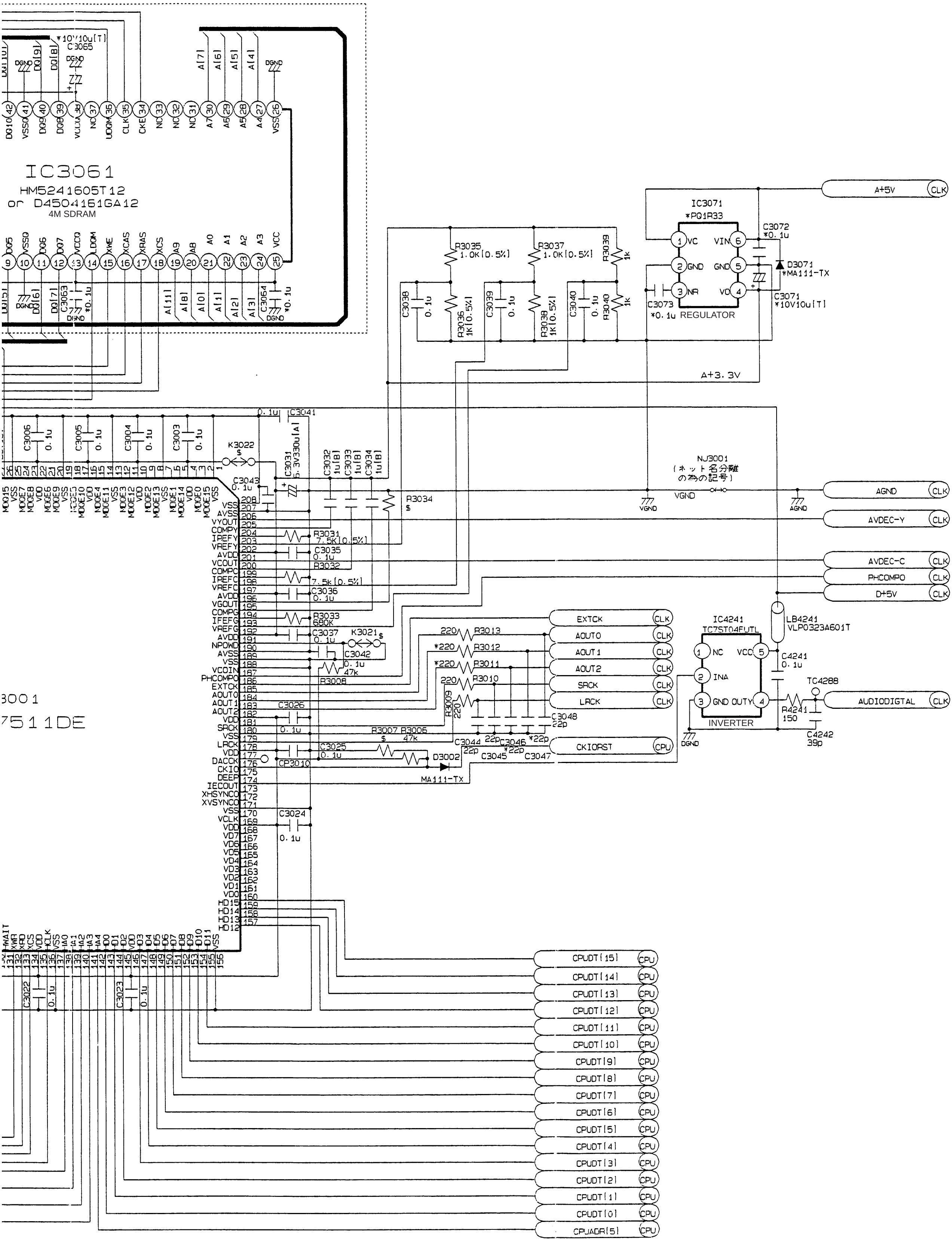

REGULATOR
IC5201
D3BPE-AD-U : RN5RZ20BA-TR
D3BPE-AD-E : RN5RZ33BA-TR
D3CBPE-AD-MU : RN5RZ33BA-TR
IC5201
*RN5RZ33BA-TR
N.C.
VOUT
VIN
CE
GND
C5203
0.1u[B]
C5208
16V10u[T]
C5202
10V10u[T]
AGND
LB5219
JALBK2HS470T
FP5201
VJS3913A021/VJS3913A021
GND(LD) 1 GND(LD) 1
LD 2 LD 2
NC 3 NC 3
VCC+2V 4 VCC+2V 4
LDMON 5 LDMON 5
VCC+5V 6 VCC+5V 6
TE4 7 TE4 7
TE1 8 FE1 8
TE2 9 TE2 9
TE3 10 TE3 10
TE2 11 FE2 11
TE1 12 TE1 12
VCC+5V 13 VCC+5V 13
SAF1 14 SAF1 14
GND 15 GND 15
VREF2.2 16 VREF2.2 16
VCC+5V 17 VCC+5V 17
T- 18 T- 18
F- 19 F- 19
T+ 20 T+ 20
F+ 21 F+ 21
VC+ 22
VC- 23
H3- 24
H3+ 25
H2- 26
H2+ 27
H1- 28
H1+ 29
SPDM-3 30
SPDM-2 31
SPDM-1 32
TRV-SW+ 33
TRVM-NB 34
TRVM-NA 35
TRVM-A 36
TRVM-B 37
TC5201
TC5202
TC5203
TC5204
TC5205
TC5206
TC5207
TC5208
TC5209
TC5210
TC5211
TC5212
TC5213
TC5214
TC5215
TC5216
TC5217
TC5218
TC5219
TC5240
TC5241
TC5242
TC5243
TC5244
TC5245
TC5246
TC5247
TC5248
TC5249
TC5250
TC5251
TC5252
TC5253
TC5254
TC5255
C5248
0.1u
LB5201
VLP0323A601T
LB5202
VLP0323A601T
LB5203
JALBK2HS470T
LB5204
VLP0323A601T
LB5205
VLP0323A601T
LB5206
VLP0323A601T
LB5207
VLP0323A601T
LB5208
VLP0323A601T
LB5209
VLP0323A601T
LB5210
VLP0323A601T
LB5211
JALBK2HS470T
LB5212
VLP0323A601T
LB5213
VLP0323A601T
LB5214
VLP0323A601T
LB5215
JALBK2HS470T
LB5216
VLP0323A601T
LB5217
JALBK2HS470T
LB5218
VLP0323A601T
SAF
ADSC
T+
F-
T-
F+
SRV
VC+
VC-
H3-
H3+
H2-
H2+
H1-
H1+
SPDM-3
SPDM-2
SPDM-1
TRV-SW+
TRVM-NB
TRVM-NA
TRVM-A
TRVM-B
R5203
22K
R5209
12K
27(1/2W)
R5201
C5201
6.3V47u[HB]
C5247
0.1u
R5202
2.2
TC5230
Q5201
2SB1115-T
R5225
560K
QR5202
UN5212-TX
R5224
150K
C5213
0.1u[B]
LDONB
LDONA
GBAL
TBAL
TG
FBAL
PULIN
SEN
SBT1
SBO1
SLEEP
FEPNTRON
CPU
R5206
10K
R5204
C5210
0.1u[B]
C5211
56p
R5211
39K
R5208
82K
C5209
100p
R5223
7.5K
R5207
10K
R5205
TC5259
TL5209
VREFH
VREFC
VREFL
ADSC/SRV
TC5233
TC5231
TC5232
C5204
0.1u[B]
C5205
0.1u[B]
C5206
0.1u[B]
C5207
16V10u[HB]
R5212
12K(1%)
R5213
39K
C5212
100p
C5214
0.18u[B]
C5215
FE
TE
TKC
DBAL
OFTLVL
BDOLVL
DSLO
R5210
2.7K
TC5256
TC5257
TC5258
DIFN 100
DIFP 99
VREF4 98
VIN4 97
VIN3 96
VIN2 95
1 LDONB
2 LDONA
3 LPCOA
4 LPC1
5 VHARF
6 TGBAL
7 POFLT
8 PTH
9 TBAL
10 TG
11 FGCTL
12 FBAL
13 FE
14 FEN
15 VREFL
16 VREFC
17 VREFH
18 PULIN
19 SEN
20 SCK
21 STDI
22 STANBY
23 XTRON
24 MTRON
25 ROMRAM
26 RSCL
27 TE1
28 TEOUT
29 TKCFLT
30 TKCNT
31 VREF1

SCHEMATIC DIAGRAM-8

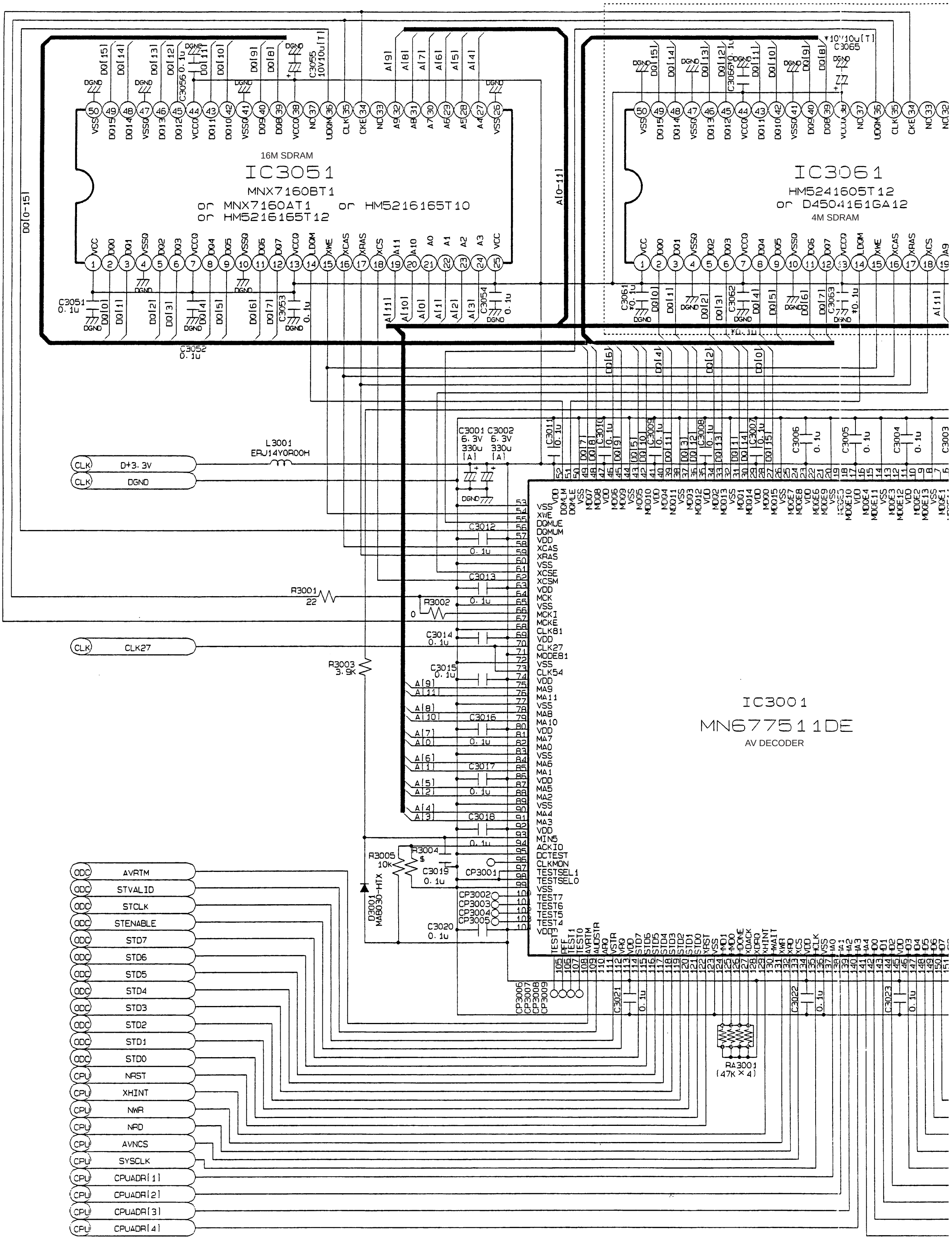


5RZ20BA-TR
5RZ33BA-TR
5RZ33BA-TR
LB5219
JALBK2HS470T
C5208
6V10u[T]
HFMON
LDCUR
FS
TS
TSTSG
ADSC
TC5236
C5230
0.1u[B]
R5216
18K
C5222
0.1u[B]
CP5205
CP5206
C5226
0.1u[B]
C5231
3.3u[KBM]
C5234
6.3V33u[HB]
AGND
A+5V
CLK
L5201
VLQ0779K100
R5209
12k
R5225
560K
QR5202
UN5212-TX
R5224
150k
C5213
0.1u[B]
C5216
0.1u
C5217
0.22u[B]
C5220
2200p[B]
C5223
82p
C5224
0.1u[B]
C5228
0.1u
C5229
220p
R5215
8.2K
C5236
0.1u[B]
C5249
680p
C5237
1000p[B]
C5238
0.22u[B]
C5239
0.1u
TC5260
QP5201
UN5212-TX
CDDVD
R5220
470k
C5243
220p
C5245
0.1u[B]
C5246
0.1u[B]
R5221
470k
C5244
220p
R5222
3.3K[1%]
RFENV
FC
BOOST
OFTR
TP5208
K5205
C5241
0.1u
C5242
120p
C5233
0.33u[B]
R5219
15K
R5217
22K
R5218
10k
TP5207
TP5206
BDO
ADSC/ODC
JTOUT
FUPDN
R5226
1.5M
QR5203
UN5112-TX
L5202
VLQ0779K100
D+3.3V
IC5202
AN8706FHQ
FEP
(FRONT END
PROCESSOR)
1 LDONB
2 LDONA
3 PCOA
4 PC1
5 VHARF
6 TGBAL
7 POFLT
8 PTH
9 TBAL
10 TG
11 FGCTL
12 FBAL
13 FE
14 FEN
15 VREFL
16 VREFC
17 VREFH
18 PULIN
19 SEN
20 SCK
21 STDI
22 STANBY
23 XTRON
24 MTRON
25 ROMRAM
26 RSCL
27 TEI
28 TEOUT
29 TKCFLT
30 TKCNT
31 VREF1
32 GND1
33 DBAL
34 IDDLY
35 VPWOFT
36 VPWBDO
37 VREF3
38 DCFLT
39 FLTOUT
40 DSLO
41 DSLFLT
42 DTMONP
43 DTMONN
44 VCC4
45 GND4
46 GND5
47 RDTN
48 RDTP
49 RDCKN
50 RDCKP
51 VCC5
52 IDGT
53 DTRD
54 CAPA
55 VCC3
56 PCPO
57 FCPO
58 PLFLT2
59 PLFLT
60 VCOIN
61 ITDLI
62 FUPDN
63 GND3
64 JITOUT
65 BDO
66 OFTR
67 BOOST
68 FC
69 RFENV
70 BOTTOM
71 PEAK
72 AGCG
73 DCAGC
74 CSAG
75 CBDOSL
76 CBDOFS
77 RBCA
78 TESTSG
79 RFINP
80 RFINN
81 VCC2
82 GND2
83 VREF2
84 COFTFS
85 COFTSL
86 RFON
87 RFOP
88 DCRF
89 TS
90 FS
91 VIN6
92 VIN5
93 VCC1
94 VIN1
95 VIN2
96 VIN3
97 VIN4
98 VREF4
99 DIFP
100 DIFN
C5210
0.1u[B]
C5211
56p
R5206
10k
R5204
R5211
39K
R5208
82K
C5209
100p
R5207
R5223
7.5K
TC5259
TL5209
R5205
10k
C5204
0.1u[B]
C5205
0.1u[B]
C5206
0.1u[B]
C5207
16V10u[HB]
R5212
12K[1%]
R5213
39K
C5212
100p
C5214
0.18u[B]
C5215
0.1u[B]
R5214
22K
C5219
0.1u[B]
C5218
0.1u[B]
TC5235
C5221
3900p[B]
CP5201
TP5201
K5201
K5202
C5227
0.1u
C5225
0.1u
DGND
C5235
3.3u[KBM]
C5232
6.3V33u[HB]
C5240
0.1u
CP5204
K5203
K5204
TL5208
TL5202
TL5203
TL5204
TL5205
TL5201
RDCKP
RDCKN
RDTP
RDTN
CP5203
CP5202
R5210
2.7K
TC5256
TC5257
TC5258

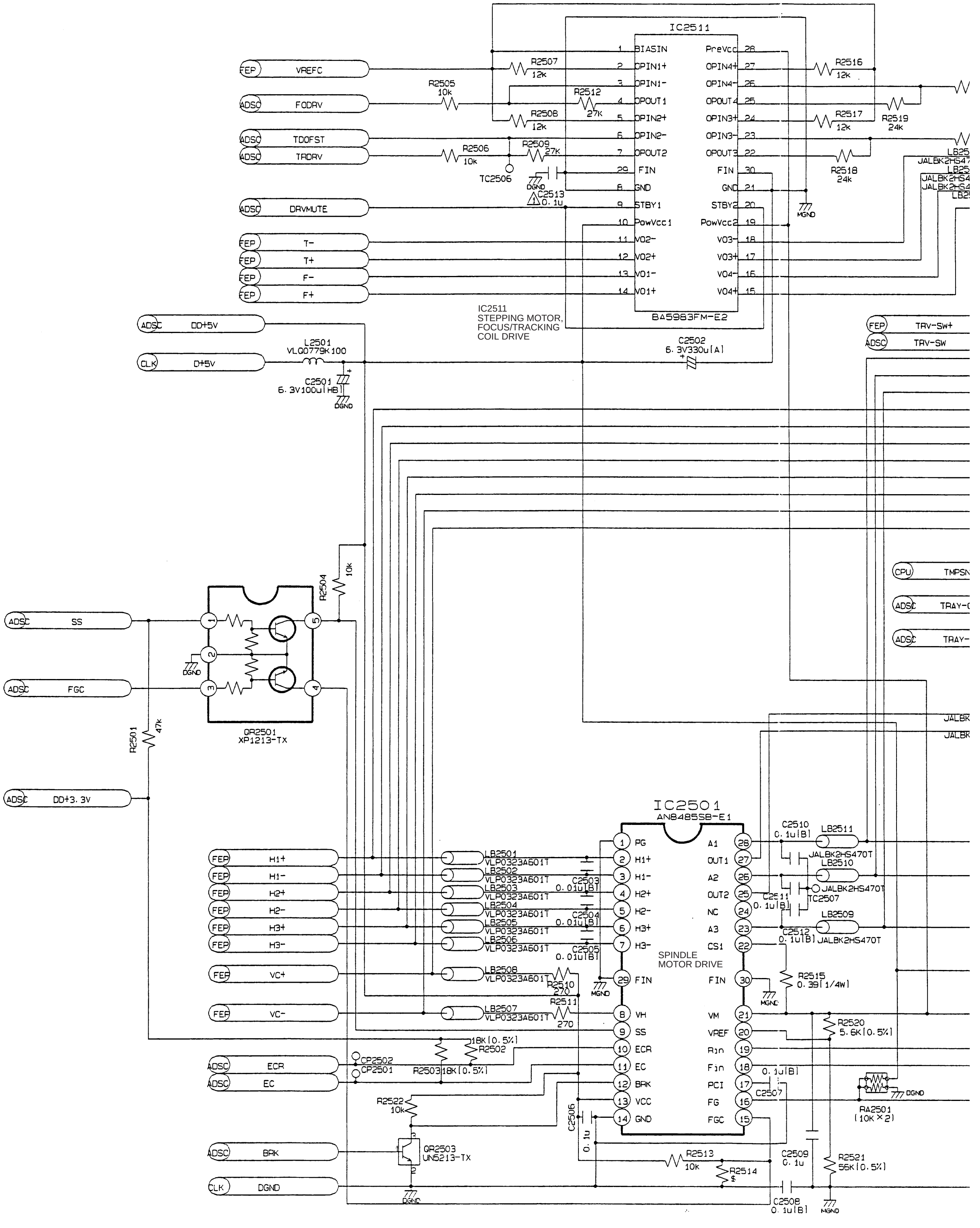
SCHEMATIC DIAGRAM-6


IC3061
HM5241605T12
or D4504161GA12
4M SDRAM
C3065
*10V10u[T]
DGND
A[7]
A[6]
A[5]
A[4]
DQ[9]
DQ[8]
DQ10
VSSQ
DQ9
DQ8
VCCQ
NC
UDQM
CLK
CKE
A7
A6
A5
A4
VSS
DQ5
VSSQ
DQ6
DQ7
VCCQ
LDQM
XWE
XCAS
XRAS
XCS
A9
A8
A0
A1
A2
A3
VCC
C3063
C3064
*0.1u
A[11]
A[8]
A[0]
A[1]
A[2]
A[3]
DQ[6]
DQ[7]
IC3071
*PQ1R33
VC
VIN
GND
NR
VO
REGULATOR
C3072
*0.1u
D3071
*MA111-TX
C3071
*10V10u[T]
C3073
*0.1u
A+5V
CLK
R3035
1.0K[0.5%]
R3037
1.0K[0.5%]
R3039
1k
R3036
1K[0.5%]
R3038
1K[0.5%]
R3040
1k
C3038
C3039
C3040
0.1u
A+3.3V
C3041
C3006
C3005
C3004
C3003
K3022
C3031
6.3V330u[A]
C3032
1u[B]
C3033
1u[B]
C3034
1u[B]
R3034
C3043
NJ3001
(ネット名分離の為の記号)
VGND
AGND
AVDEC-Y
AVDEC-C
PHCOMPO
D+5V
MDQE15
VSS
AVSS
VYOUT
COMPY
IREFY
VREFY
AVDD
VCOUT
COMPC
IREFC
VREFC
VGOUT
COMPG
IFEFG
VREFG
NPOWD
VCOIN
EXTCK
AOUT0
AOUT1
AOUT2
SRCK
LRCK
DACCK
CKIO
DEEP
IECOUT
XHSYNCO
XVSYNCO
VCLK
VDD
VD7
VD6
VD5
VD4
VD3
VD2
VD1
VD0
HD15
HD14
HD13
HD12
R3031
7.5K[0.5%]
C3035
R3032
7.5k[0.5%]
C3036
R3033
680K
C3037
K3021
C3042
47k
R3008
C3026
C3025
CP3010
C3024
EXTCK
AOUT0
AOUT1
AOUT2
SRCK
LRCK
CKIORST
R3013
R3012
R3011
R3010
220
*220
R3009
R3007
R3006
D3002
MA111-TX
C3044
C3045
C3046
C3047
C3048
22p
*22p
CPU
IC4241
TC7ST04FUTL
NC
VCC
INA
GND
OUTY
INVERTER
LB4241
VLP0323A601T
C4241
0.1u
TC4288
R4241
150
C4242
39p
AUDIODIGTAL
3001
7511DE
C3022
C3023
CPUDT[15]
CPUDT[14]
CPUDT[13]
CPUDT[12]
CPUDT[11]
CPUDT[10]
CPUDT[9]
CPUDT[8]
CPUDT[7]
CPUDT[6]
CPUDT[5]
CPUDT[4]
CPUDT[3]
CPUDT[2]
CPUDT[1]
CPUDT[0]
CPUADR[5]

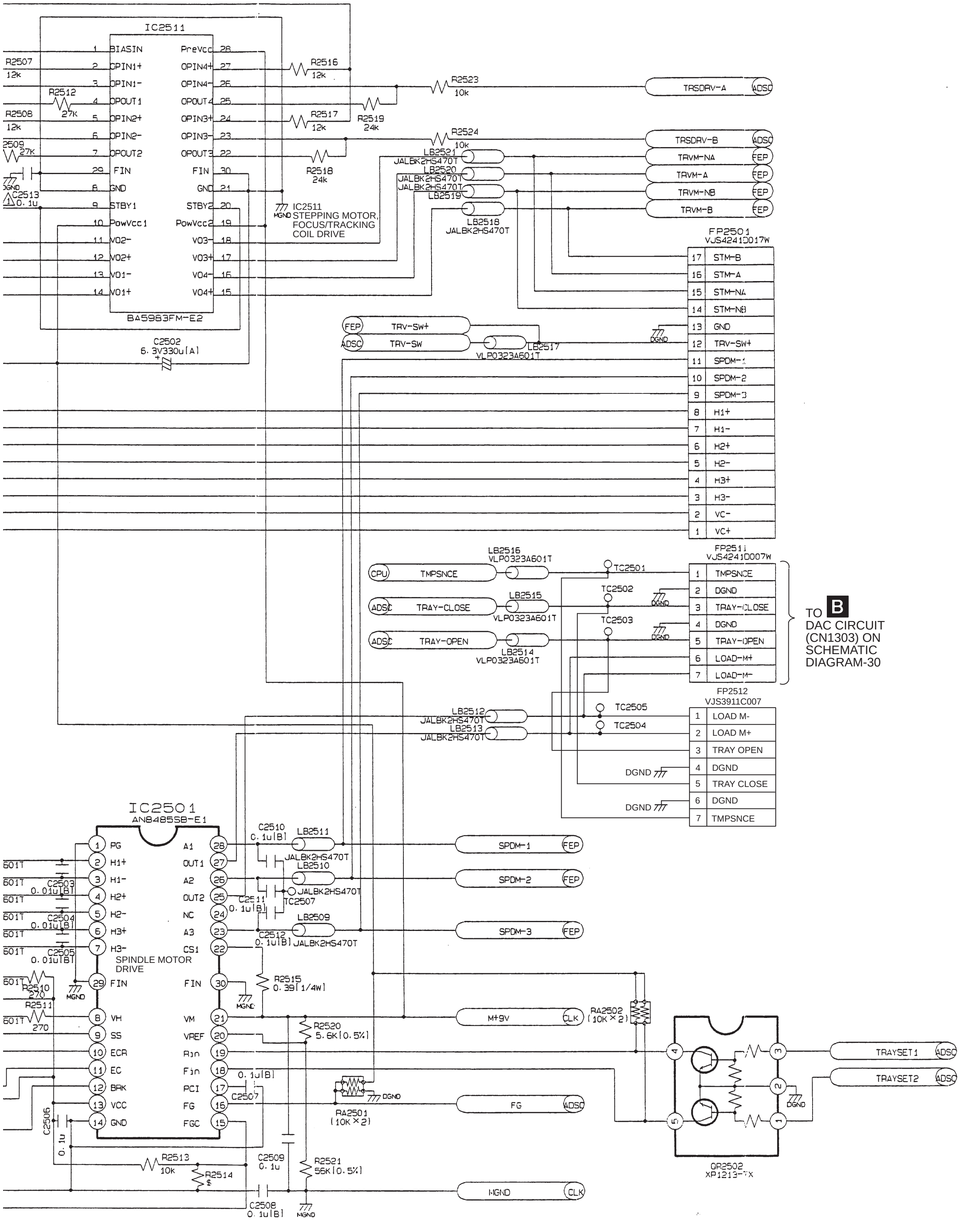
SCHEMATIC DIAGRAM-5


16M SDRAM
IC3051
MNX7160BT1
or MNX7160AT1 or HM5216165T10
or HM5216165T12
IC3061
HM5241605T12
or D4504161GA12
4M SDRAM
IC3001
MN677511DE
AV DECODER
DQ[0-15]
A[0-11]
L3001
ERJ14Y0R00H
C3001 6.3V 330u [A]
C3002 6.3V 330u [A]
C3051 0.1u
C3052 0.1u
C3053 0.1u
C3054 0.1u
C3055 10V10u[T]
C3056 0.1u
C3061 0.1u
C3062 0.1u
C3063 0.1u
C3065 10V10u[T]
C3066 0.1u
R3001 22
R3002 0
R3003 3.9K
R3004
R3005 10k
C3019 0.1u
C3020 0.1u
D3001 MA8030-HTX
CP3001
CP3002
CP3003
CP3004
CP3005
CP3006
CP3007
CP3008
CP3009
C3021 0.1u
C3022 0.1u
C3023 0.1u
RA3001 (47K×4)
DGND
CLK D+3.3V
CLK DGND
CLK CLK27
ODC AVRTM
ODC STVALID
ODC STCLK
ODC STENABLE
ODC STD7
ODC STD6
ODC STD5
ODC STD4
ODC STD3
ODC STD2
ODC STD1
ODC STD0
CPU NRST
CPU XHINT
CPU NWR
CPU NRD
CPU AVNCS
CPU SYSCLK
CPU CPUADR[1]
CPU CPUADR[2]
CPU CPUADR[3]
CPU CPUADR[4]

SCHEMATIC DIAGRAM-3

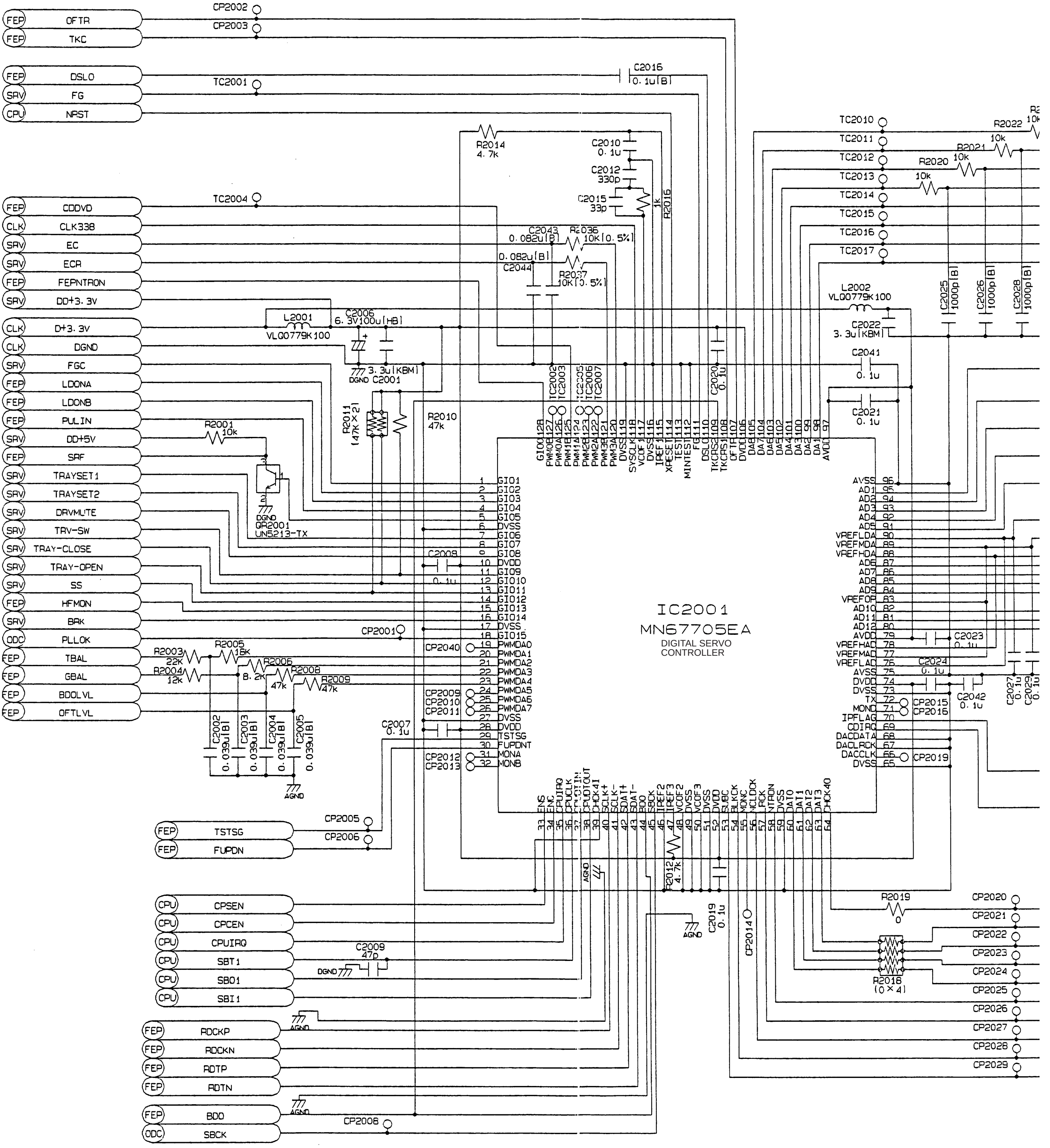

IC2511
BIASIN
OPIN1+
OPIN1-
OPOUT1
OPIN2+
OPIN2-
OPOUT2
FIN
GND
STBY1
PowVcc1
VO2-
VO2+
VO1-
VO1+
PreVcc
OPIN4+
OPIN4-
OPOUT4
OPIN3+
OPIN3-
OPOUT3
STBY2
PowVcc2
VO3-
VO3+
VO4-
VO4+
BA5983FM-E2
IC2511
STEPPING MOTOR,
FOCUS/TRACKING
COIL DRIVE
FEP VREFC
ADSC FODRV
ADSC TDOFST
ADSC TRDRV
ADSC DRVMUTE
FEP T-
FEP T+
FEP F-
FEP F+
R2507 12k
R2505 10k
R2512 27K
R2508 12k
R2506 10k
R2509 27K
TC2506
C2513 0.1u
DGND
R2516 12k
R2517 12k
R2519 24k
R2518 24k
MGND
JALBK2HS47
ADSC DD+5V
CLK D+5V
L2501 VLQ0779K100
C2501 6.3V100u(HB)
C2502 6.3V330u(A)
FEP TRV-SW+
ADSC TRV-SW
CPU TMPSN
ADSC TRAY-
ADSC TRAY-
R2504 10k
ADSC SS
ADSC FGC
QR2501 XP1213-TX
R2501 47k
ADSC DD+3.3V
IC2501
AN8485SB-E1
PG
H1+
H1-
H2+
H2-
H3+
H3-
FIN
VH
SS
ECR
EC
BRK
VCC
GND
A1
OUT1
A2
OUT2
NC
A3
CS1
FIN
VM
VREF
Rin
Fin
PCI
FG
FGC
SPINDLE
MOTOR DRIVE
FEP H1+
FEP H1-
FEP H2+
FEP H2-
FEP H3+
FEP H3-
FEP VC+
FEP VC-
LB2501 VLP0323A601T
LB2502 VLP0323A601T
LB2503 VLP0323A601T
LB2504 VLP0323A601T
LB2505 VLP0323A601T
LB2506 VLP0323A601T
LB2508 VLP0323A601T
LB2507 VLP0323A601T
C2503 0.01u(B)
C2504 0.01u(B)
C2505 0.01u(B)
R2510 270
R2511 270
C2510 0.1u(B)
LB2511 JALBK2HS470T
LB2510 JALBK2HS470T
C2511 0.1u(B)
TC2507
LB2509 JALBK2HS470T
C2512 0.1u(B)
R2515 0.39(1/4W)
R2520 5.6K(0.5%)
RA2501 (10K×2)
C2507 0.1u(B)
R2521 56K(0.5%)
C2509 0.1u
C2508 0.1u(B)
R2513 10k
R2514 $
R2502 18K(0.5%)
R2503 18K(0.5%)
CP2502
CP2501
ADSC ECR
ADSC EC
R2522 10k
C2506 0.1u
ADSC BRK
QR2503 UN5213-TX
CLK DGND
JALBK
JALBK

SCHEMATIC DIAGRAM-4


IC2511
BA5983FM-E2
1 BIASIN
2 OPIN1+
3 OPIN1-
4 OPOUT1
5 OPIN2+
6 OPIN2-
7 OPOUT2
29 FIN
8 GND
9 STBY1
10 PowVcc1
11 VO2-
12 VO2+
13 VO1-
14 VO1+
PreVcc 28
OPIN4+ 27
OPIN4- 26
OPOUT4 25
OPIN3+ 24
OPIN3- 23
OPOUT3 22
FIN 30
GND 21
STBY2 20
PowVcc2 19
VO3- 18
VO3+ 17
VO4- 16
VO4+ 15
R2507 12k
R2512 27K
R2508 12k
R2509 27K
C2513 0.1u
DGND
R2516 12k
R2517 12k
R2519 24k
R2518 24k
R2523 10k
R2524 10k
IC2511 STEPPING MOTOR, FOCUS/TRACKING COIL DRIVE
MGND
LB2521 JALBK2HS470T
LB2520 JALBK2HS470T
JALBK2HS470T LB2519
LB2518 JALBK2HS470T
TRSDRV-A ADSC
TRSDRV-B ADSC
TRVM-NA FEP
TRVM-A FEP
TRVM-NB FEP
TRVM-B FEP
C2502 6.3V330u[A]
FEP TRV-SW+
ADSC TRV-SW
LB2517 VLP0323A601T
FP2501 VJS4241D017W
17 STM-B
16 STM-A
15 STM-NA
14 STM-NB
13 GND
12 TRV-SW+
11 SPDM-1
10 SPDM-2
9 SPDM-3
8 H1+
7 H1-
6 H2+
5 H2-
4 H3+
3 H3-
2 VC-
1 VC+
DGND
LB2516 VLP0323A601T
CPU TMPSNCE
TC2501
ADSC TRAY-CLOSE
LB2515 VLP0323A601T
TC2502
TC2503
ADSC TRAY-OPEN
LB2514 VLP0323A601T
FP2511 VJS4241D007W
1 TMPSNCE
2 DGND
3 TRAY-CLOSE
4 DGND
5 TRAY-OPEN
6 LOAD-M+
7 LOAD-M-
TO B DAC CIRCUIT (CN1303) ON SCHEMATIC DIAGRAM-30
FP2512 VJS3911C007
1 LOAD M-
2 LOAD M+
3 TRAY OPEN
4 DGND
5 TRAY CLOSE
6 DGND
7 TMPSNCE
LB2512 JALBK2HS470T
LB2513 JALBK2HS470T
TC2505
TC2504
DGND
DGND
IC2501 AN8485SB-E1
1 PG
2 H1+
3 H1-
4 H2+
5 H2-
6 H3+
7 H3-
29 FIN
8 VH
9 SS
10 ECR
11 EC
12 BRK
13 VCC
14 GND
A1 28
OUT1 27
A2 26
OUT2 25
NC 24
A3 23
CS1 22
FIN 30
VM 21
VREF 20
Rin 19
Fin 18
PCI 17
FG 16
FGC 15
SPINDLE MOTOR DRIVE
601T
C2503 0.01u[B]
C2504 0.01u[B]
C2505 0.01u[B]
R2510 270
R2511 270
MGND
C2506 0.1u
C2510 0.1u[B]
LB2511 JALBK2HS470T
LB2510 JALBK2HS470T
TC2507
C2511 0.1u[B]
LB2509
C2512 0.1u[B] JALBK2HS470T
SPDM-1 FEP
SPDM-2 FEP
SPDM-3 FEP
R2515 0.39[1/4W]
MGND
R2520 5.6K[0.5%]
M+9V CLK
RA2502 (10K×2)
0.1u[B]
C2507
RA2501 (10K×2)
DGND
FG ADSC
R2513 10k
R2514 $
C2509 0.1u
R2521 56K[0.5%]
MGND CLK
C2508 0.1u[B]
MGND
QR2502 XP1213-TX
TRAYSET1 ADSC
TRAYSET2 ADSC
DGND

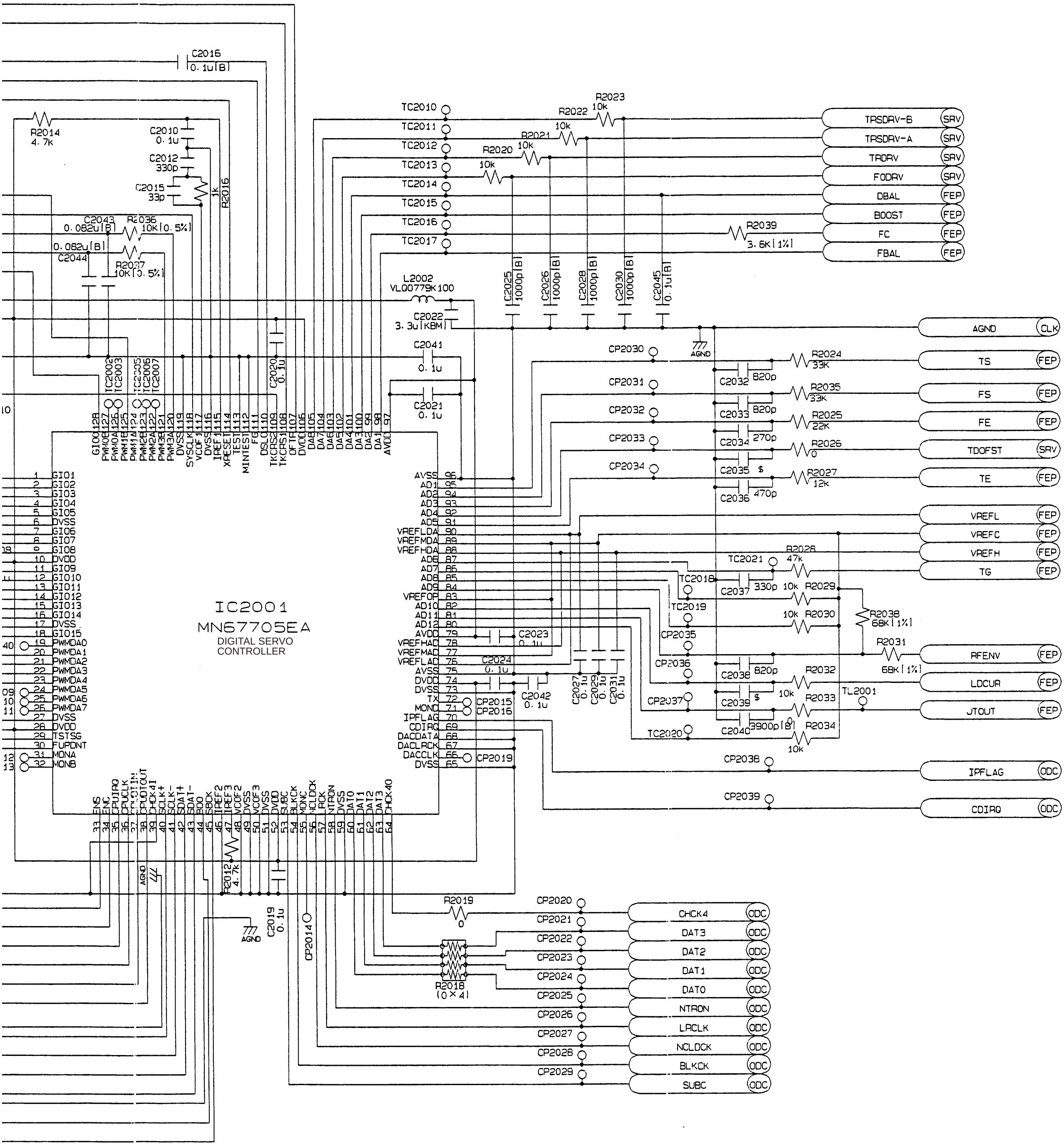
SCHEMATIC DIAGRAM-1

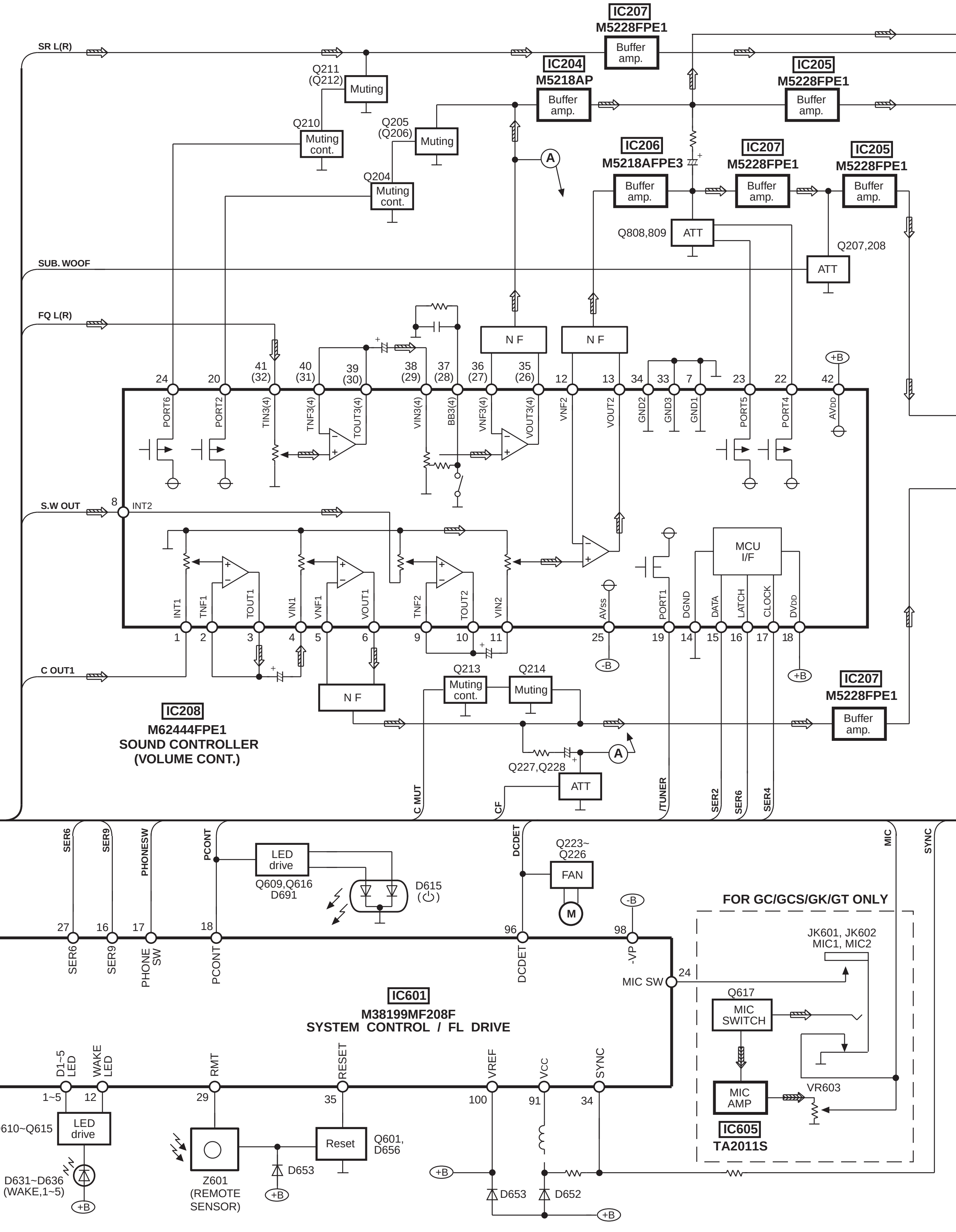
A DVD SERVO CIRCUIT (FOR GCS/GK/GT ONLY)

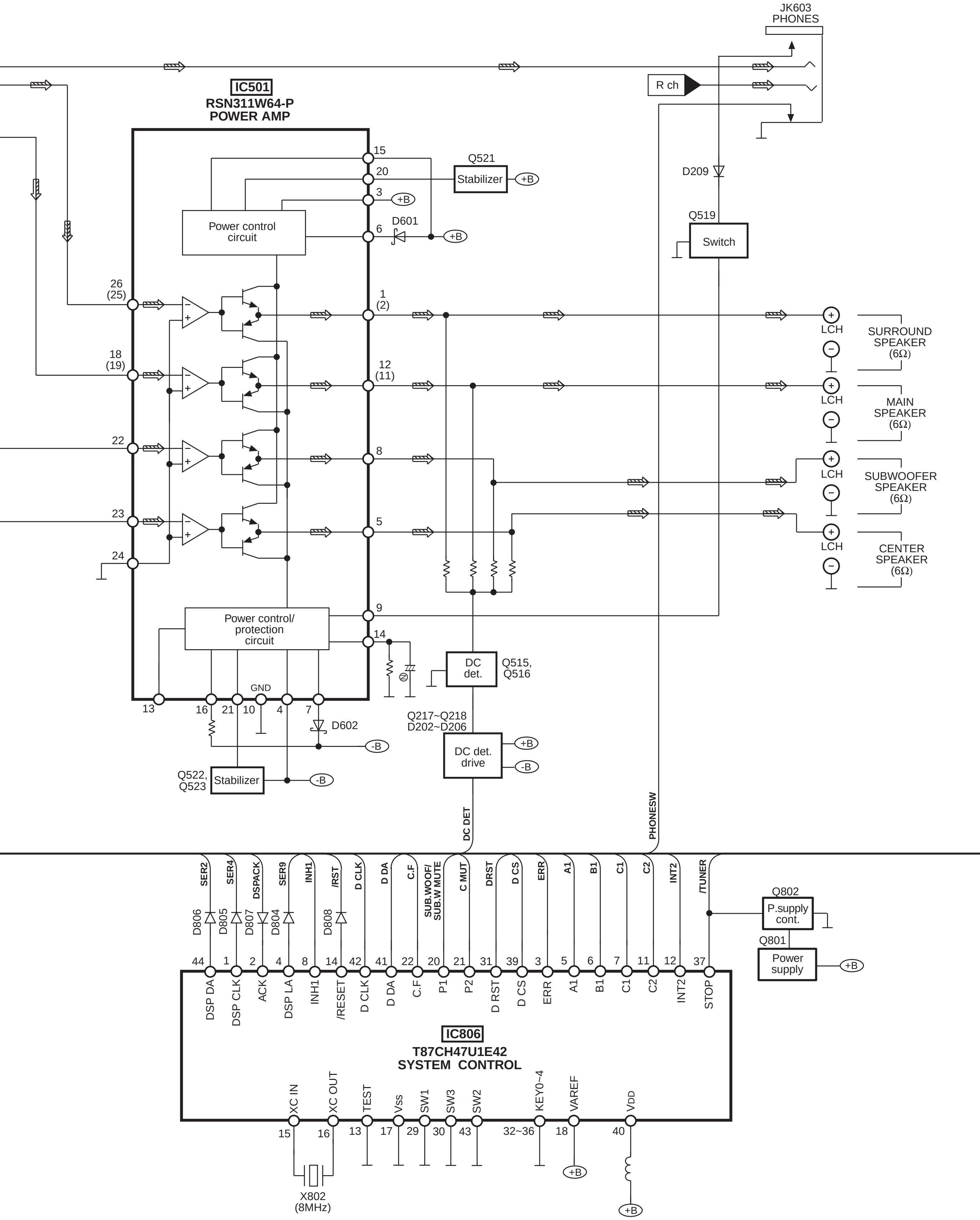


FEP OFTR
FEP TKC
FEP DSLO
SRV FG
CPU NRST
FEP CDDVD
CLK CLK338
SRV EC
SRV ECR
FEP FEPNTRON
SRV DD+3.3V
CLK D+3.3V
CLK DGND
SRV FGC
FEP LDONA
FEP LDONB
FEP PULIN
SRV DD+5V
FEP SRF
SRV TRAYSET1
SRV TRAYSET2
SRV DRVMUTE
SRV TRV-SW
SRV TRAY-CLOSE
SRV TRAY-OPEN
SRV SS
FEP HFMON
SRV BRK
ODC PLLOK
FEP TBAL
FEP GBAL
FEP BDOLVL
FEP OFTLVL
FEP TSTSG
FEP FUPDN
CPU CPSEN
CPU CPCEN
CPU CPUIRQ
CPU SBT1
CPU SBO1
CPU SBI1
FEP RDCKP
FEP RDCKN
FEP RDTP
FEP RDTN
FEP BDO
ODC SBCK
CP2002
CP2003
TC2001
TC2004
C2016 0.1u[B]
R2014 4.7k
C2010 0.1u
C2012 330p
C2015 33p
1k R2016
C2043 0.082u[B]
R2036 10K[0.5%]
0.082u[B] C2044
R2037 10K[0.5%]
L2001 VLQ0779K100
C2006 6.3V100u[HB]
3.3u[KBM] C2001
DGND
R2011 (47K×2)
R2010 47K
R2001 10k
QR2001 UN5213-TX
C2008 0.1u
CP2001
CP2040
R2003 22K
R2004 12k
R2005 18K
R2006 8.2K
R2008 47k
R2009 47k
C2002 0.039u[B]
C2003 0.039u[B]
C2004 0.039u[B]
C2005 0.039u[B]
AGND
C2007 0.1u
CP2009 CP2010 CP2011
CP2012 CP2013
CP2005
CP2006
C2009 47p
CP2008
TC2002 TC2003 TC2005 TC2006 TC2007
C2020 0.1u
IC2001
MN67705EA
DIGITAL SERVO CONTROLLER
1 GIO1
2 GIO2
3 GIO3
4 GIO4
5 GIO5
6 DVSS
7 GIO6
8 GIO7
9 GIO8
10 DVDD
11 GIO9
12 GIO10
13 GIO11
14 GIO12
15 GIO13
16 GIO14
17 DVSS
18 GIO15
19 PWMDA0
20 PWMDA1
21 PWMDA2
22 PWMDA3
23 PWMDA4
24 PWMDA5
25 PWMDA6
26 PWMDA7
27 DVSS
28 DVDD
29 TSTSG
30 FUPDNT
31 MONA
32 MONB
33 ENS
34 ENC
35 CPUIRQ
36 CPUCLK
37 CPUSTIN
38 CPUDTOUT
39 CHCK4I
40 SCLK+
41 SCLK-
42 SDAT+
43 SDAT-
44 BDO
45 SBCK
46 IREF2
47 IREF3
48 VCOF2
49 DVSS
50 VCOF3
51 DVSS
52 DVDD
53 SUBC
54 BLKCK
55 MONC
56 NCLDCK
57 LRCK
58 NTRON
59 DVSS
60 DAT0
61 DAT1
62 DAT2
63 DAT3
64 CHCK40
65 DVSS
66 DACCLK
67 DACLRCK
68 DACDATA
69 CDIRQ
70 IPFLAG
71 MONO
72 TX
73 DVSS
74 DVDD
75 AVSS
76 VREFLAD
77 VREFMAD
78 VREFHAD
79 AVDD
80 AD12
81 AD11
82 AD10
83 VREFOP
84 AD9
85 AD8
86 AD7
87 AD6
88 VREFHDA
89 VREFMDA
90 VREFLDA
91 AD5
92 AD4
93 AD3
94 AD2
95 AD1
96 AVSS
97 AVDD
98 DA1
99 DA2
100 DA3
101 DA4
102 DA5
103 DA6
104 DA7
105 DA8
106 DVDD
107 OFTR
108 TKCRS1
109 TKCRS2
110 DSLO
111 FG
112 MINTEST
113 TEST
114 XRESET
115 IREF1
116 DVSS
117 VCOF1
118 SYSCLK
119 DVSS
120 PWM3A
121 PWM3B
122 PWM2A
123 PWM2B
124 PWM1A
125 PWM1B
126 PWM0A
127 PWM0B
128 GIO0
TC2010 TC2011 TC2012 TC2013 TC2014 TC2015 TC2016 TC2017
R2022 10k
R2021 10k
R2020 10k
L2002 VLQ0779K100
C2022 3.3u[KBM]
C2025 1000p[B]
C2026 1000p[B]
C2028 1000p[B]
C2041 0.1u
C2021 0.1u
C2023 0.1u
C2024 0.1u
C2042 0.1u
C2027 0.1u
C2029 0.1u
CP2015 CP2016
CP2019
R2012 4.7k
C2019 0.1u
CP2014
R2019 0
R2018 (0×4)
CP2020 CP2021 CP2022 CP2023 CP2024 CP2025 CP2026 CP2027 CP2028 CP2029

SCHEMATIC DIAGRAM-2


IC2001
MN67705EA
DIGITAL SERVO
CONTROLLER
C2016
0.1u(B)
R2014
4.7k
C2010
0.1u
C2012
330p
C2015
33p
1k
R2016
C2043
0.082u(B)
R2036
10K(0.5%)
0.082u(B)
C2044
R2037
10K(0.5%)
TC2010
TC2011
TC2012
TC2013
TC2014
TC2015
TC2016
TC2017
R2023
10k
R2022
10k
R2021
10k
R2020
10k
10k
TRSDRV-B
TRSDRV-A
TRDRV
FODRV
DBAL
BOOST
FC
FBAL
SRV
FEP
R2039
3.6K(1%)
L2002
VLQ0779K100
C2022
3.3u(KBM)
C2025
1000p(B)
C2026
1000p(B)
C2028
1000p(B)
C2030
1000p(B)
C2045
0.1u(B)
AGND
CLK
C2041
0.1u
C2021
0.1u
C2020
0.1u
CP2030
CP2031
CP2032
CP2033
CP2034
C2032
820p
C2033
820p
C2034
270p
C2035
C2036
470p
R2024
33K
R2035
33K
R2025
22K
R2026
0
R2027
12K
TS
FS
FE
TDOFST
TE
VREFL
VREFC
VREFH
TG
TC2021
R2028
47k
TC2018
C2037
330p
R2029
10k
TC2019
R2030
10k
R2038
68K(1%)
CP2035
R2031
68K(1%)
RFENV
CP2036
C2038
820p
R2032
LDCUR
CP2037
C2039
10k
R2033
TL2001
JTOUT
TC2020
C2040
3900p(B)
R2034
10k
CP2038
IPFLAG
ODC
CP2039
CDIRQ
C2023
0.1u
C2024
0.1u
C2042
0.1u
C2027
0.1u
C2029
0.1u
C2031
0.1u
CP2015
CP2016
CP2019
TC2002
TC2003
TC2005
TC2006
TC2007
1 GIO1
2 GIO2
3 GIO3
4 GIO4
5 GIO5
6 DVSS
7 GIO6
8 GIO7
9 GIO8
10 DVDD
11 GIO9
12 GIO10
13 GIO11
14 GIO12
15 GIO13
16 GIO14
17 DVSS
18 GIO15
19 PWMDA0
20 PWMDA1
21 PWMDA2
22 PWMDA3
23 PWMDA4
24 PWMDA5
25 PWMDA6
26 PWMDA7
27 DVSS
28 DVDD
29 TSTSG
30 FUPDNT
31 MONA
32 MONB
33 ENS
34 ENC
35 CPUIRQ
36 CPUCLK
37 CPUDTIN
38 CPUDTOUT
39 CHCK41
40 SCLK+
41 SCLK-
42 SDAT+
43 SDAT-
44 BDO
45 SBCK
46 IREF2
47 IREF3
48 VCOF2
49 DVSS
50 VCOF3
51 DVDD
52 DVDD
53 SUBC
54 BLKCK
55 MONC
56 NCLDCK
57 LRCK
58 NTRON
59 DVSS
60 DAT0
61 DAT1
62 DAT2
63 DAT3
64 CHCK40
65 DVSS
66 DACCLK
67 DACLRCK
68 DACDATA
69 CDIRQ
70 IPFLAG
71 MONO
72 TX
73 DVSS
74 DVDD
75 AVSS
76 VREFLAC
77 VREFMAC
78 VREFHAC
79 AVDD
80 AD12
81 AD11
82 AD10
83 VREFOP
84 AD9
85 AD8
86 AD7
87 AD6
88 VREFHDA
89 VREFMDA
90 VREFLDA
91 AD5
92 AD4
93 AD3
94 AD2
95 AD1
96 AVSS
97 AVDD
98 DA1
99 DA2
100 DA3
101 DA4
102 DA5
103 DA6
104 DA7
105 DA8
106 DVDD
107 OFTR
108 TKCRS1
109 TKCRS2
110 DSL0
111 FG
112 MINTEST
113 TEST
114 XRESET
115 IREF1
116 DVSS
117 VCOF1
118 SYSCLK
119 DVSS
120 PWM3A
121 PWM3B
122 PWM2A
123 PWM2B
124 PWM1A
125 PWM1B
126 PWM0A
127 PWM0B
128 GIO0
R2012
4.7k
AGND
C2019
0.1u
CP2014
R2019
0
R2018
(0×4)
CP2020
CP2021
CP2022
CP2023
CP2024
CP2025
CP2026
CP2027
CP2028
CP2029
CHCK4
DAT3
DAT2
DAT1
DAT0
NTRON
LRCLK
NCLDCK
BLKCK
SUBC

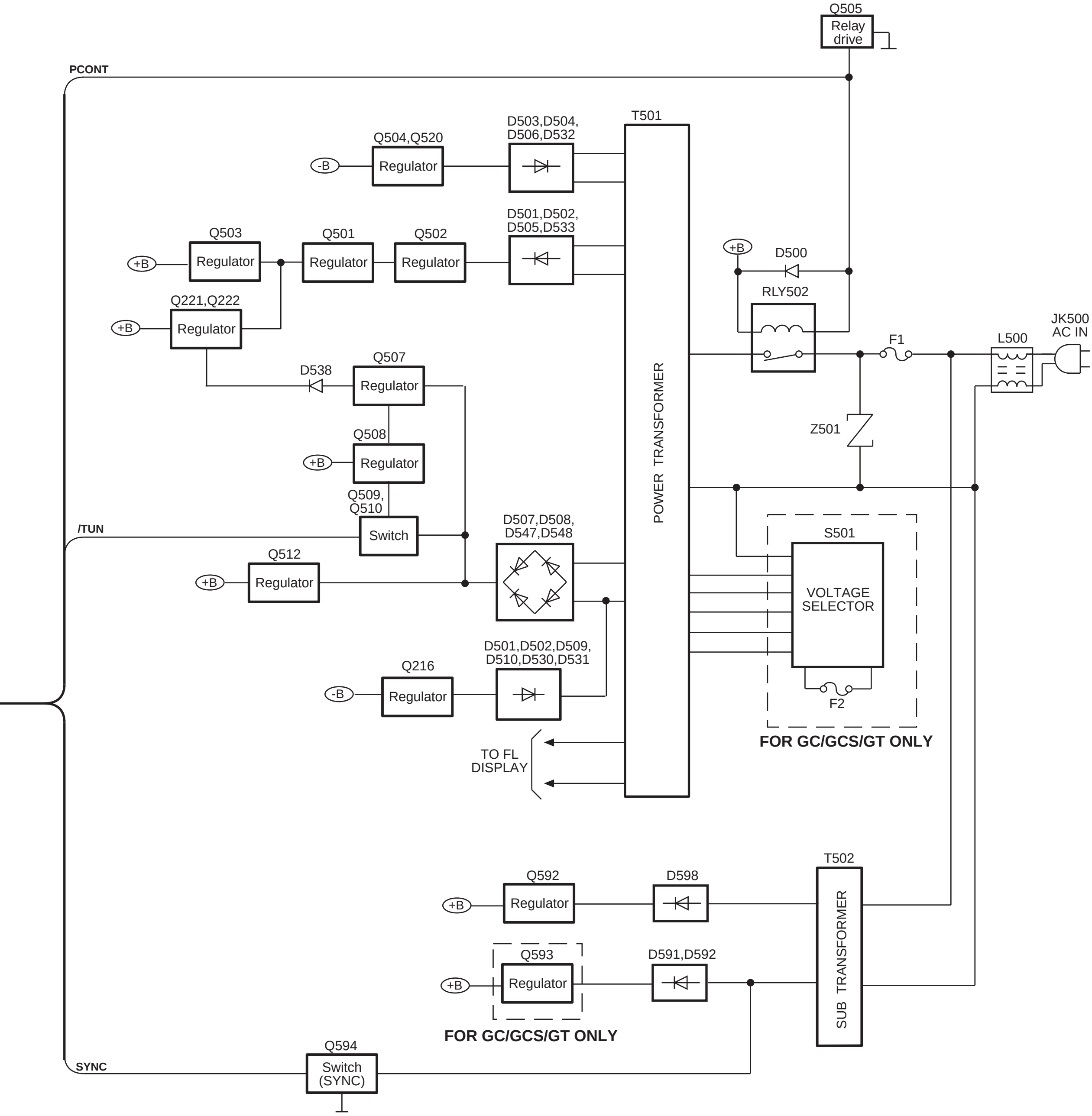

SR L(R)
SUB. WOOF
FQ L(R)
S.W OUT
C OUT1
IC207
M5228FPE1
Buffer amp.
IC204
M5218AP
Buffer amp.
IC205
M5228FPE1
Buffer amp.
IC206
M5218AFPE3
Buffer amp.
IC207
M5228FPE1
Buffer amp.
IC205
M5228FPE1
Buffer amp.
Q211
(Q212)
Muting
Q210
Muting cont.
Q205
(Q206)
Muting
Q204
Muting cont.
A
Q808,809
ATT
Q207,208
ATT
N F
N F
24
20
41
(32)
40
(31)
39
(30)
38
(29)
37
(28)
36
(27)
35
(26)
12
13
34
33
7
23
22
42
+B
PORT6
PORT2
TIN3(4)
TNF3(4)
TOUT3(4)
VIN3(4)
BB3(4)
VNF3(4)
VOUT3(4)
VNF2
VOUT2
GND2
GND3
GND1
PORT5
PORT4
AVDD
8
INT2
MCU
I/F
INT1
TNF1
TOUT1
VIN1
VNF1
VOUT1
TNF2
TOUT2
VIN2
AVss
PORT1
DGND
DATA
LATCH
CLOCK
DVDD
1
2
3
4
5
6
9
10
11
25
19
14
15
16
17
18
-B
+B
Q213
Muting cont.
Q214
Muting
N F
IC207
M5228FPE1
Buffer amp.
IC208
M62444FPE1
SOUND CONTROLLER
(VOLUME CONT.)
A
Q227,Q228
ATT
C MUT
CF
/TUNER
SER2
SER6
SER4
SER6
SER9
PHONESW
PCONT
LED drive
Q609,Q616
D691
D615
(⏻)
DCDET
Q223~
Q226
FAN
M
MIC
SYNC
-B
FOR GC/GCS/GK/GT ONLY
27
16
17
18
96
98
SER6
SER9
PHONE SW
PCONT
DCDET
-VP
JK601, JK602
MIC1, MIC2
24
MIC SW
Q617
MIC SWITCH
IC601
M38199MF208F
SYSTEM CONTROL / FL DRIVE
D1~5 LED
WAKE LED
RMT
RESET
VREF
VCC
SYNC
1~5
12
29
35
100
91
34
VR603
MIC AMP
IC605
TA2011S
Q610~Q615
LED drive
D631~D636
(WAKE,1~5)
+B
Z601
(REMOTE SENSOR)
Reset
Q601,
D656
D653
+B
+B
D653
D652
+B


JK603
PHONES
R ch
IC501
RSN311W64-P
POWER AMP
Q521
Stabilizer
+B
15
20
3
6
D601
Power control circuit
D209
Q519
Switch
26
(25)
18
(19)
22
23
24
1
(2)
12
(11)
8
5
9
14
LCH
SURROUND SPEAKER (6Ω)
MAIN SPEAKER (6Ω)
SUBWOOFER SPEAKER (6Ω)
CENTER SPEAKER (6Ω)
Power control/ protection circuit
DC det.
Q515, Q516
GND
13
16
21
10
4
7
D602
-B
Q217~Q218
D202~D206
DC det. drive
Q522, Q523
Stabilizer
DC DET
PHONESW
SER2
SER4
DSPACK
SER9
INH1
/RST
D CLK
D DA
C.F
SUB.WOOF/ SUB.W MUTE
C MUT
DRST
D CS
ERR
A1
B1
C1
C2
INT2
/TUNER
D806
D805
D807
D804
D808
Q802
P.supply cont.
Q801
Power supply
44
1
2
4
8
14
42
41
22
20
21
31
39
3
5
6
7
11
12
37
DSP DA
DSP CLK
ACK
DSP LA
INH1
/RESET
D CLK
D DA
C.F
P1
P2
D RST
D CS
ERR
A1
B1
C1
C2
INT2
STOP
IC806
T87CH47U1E42
SYSTEM CONTROL
XC IN
XC OUT
TEST
Vss
SW1
SW3
SW2
KEY0~4
VAREF
VDD
15
16
13
17
29
30
43
32~36
18
40
X802
(8MHz)

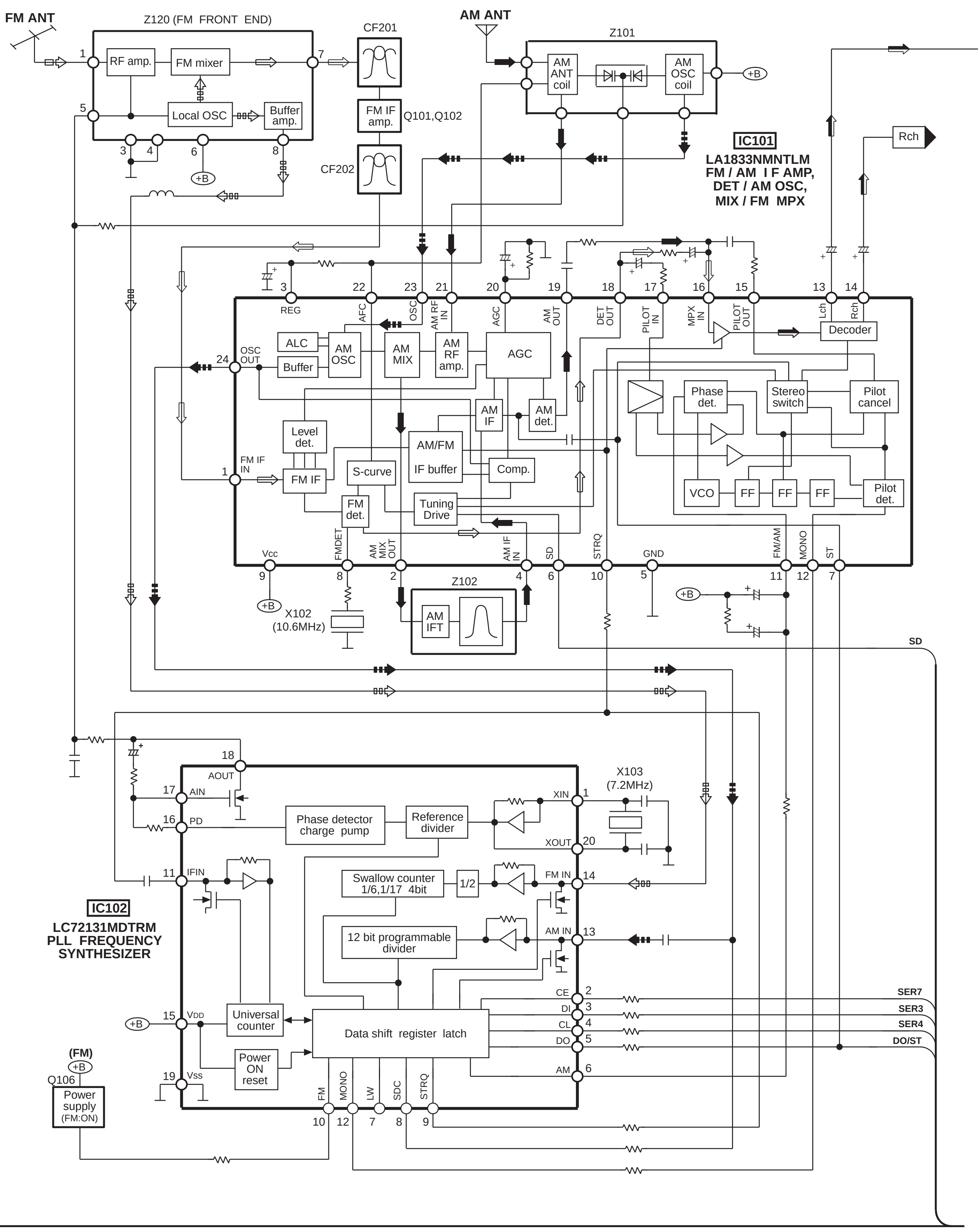
SIGNAL LINES

⇨ MAIN SIGNAL LINE	➡ AM SIGNAL LINE	➡ AM OSC SIGNAL LINE
⇨ FM OSC SIGNAL LINE	➡ FM & AM SIGNALS LINE	⇨ CD/DVD (AUDIO) SIGNAL LINE
⇨ FM SIGNAL LINE	⇨ MIC SIGNAL LINE	⇨ DVD (VIDEO) SIGNAL LINE

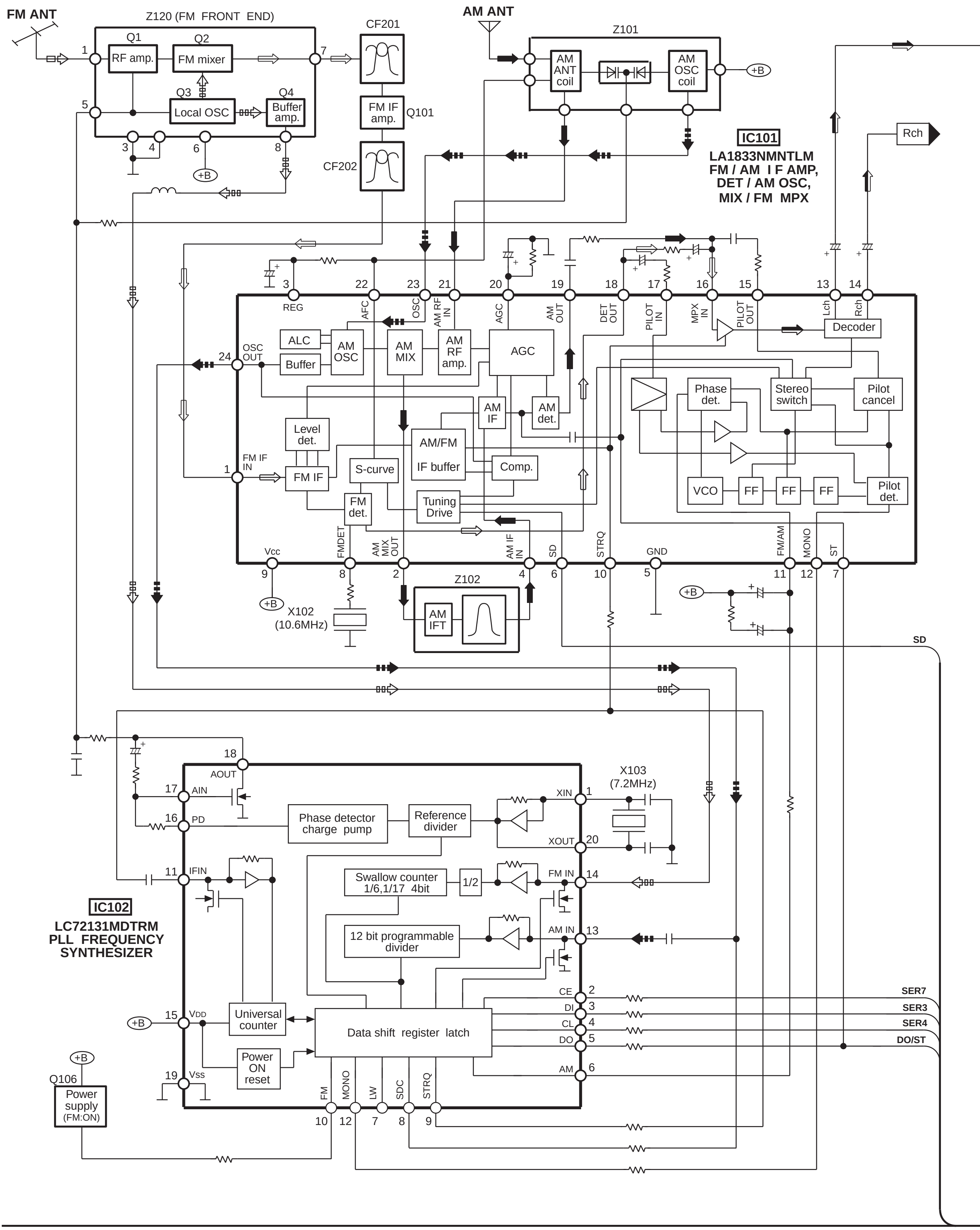
( ) indicates Pin No. Right Channel.

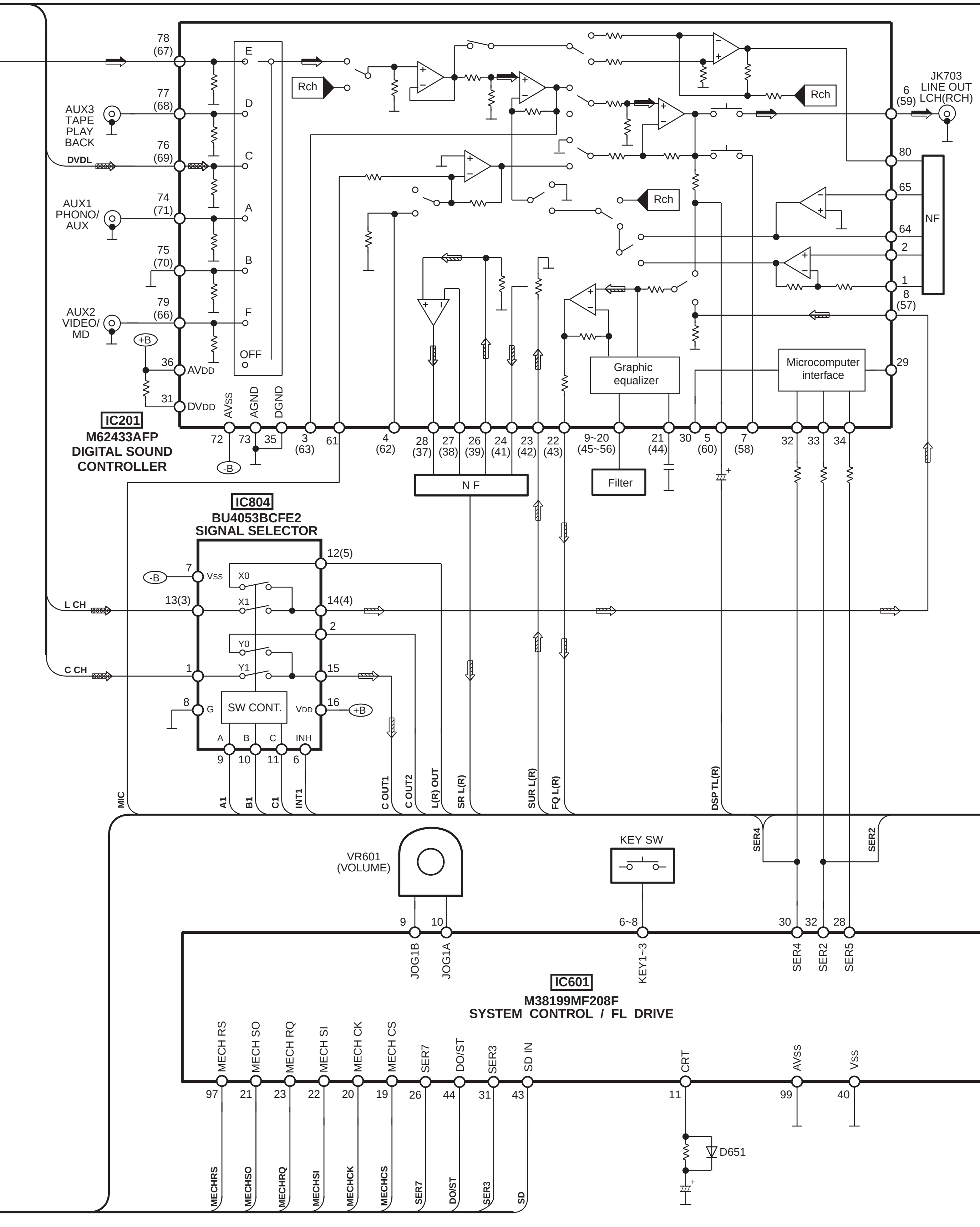

Q505
Relay drive
PCONT
T501
D503,D504,
D506,D532
Q504,Q520
-B
Regulator
D501,D502,
D505,D533
Q503
Q501
Q502
+B
Regulator
Regulator
Regulator
D500
RLY502
Q221,Q222
+B
Regulator
JK500
AC IN
F1
L500
Q507
D538
Regulator
POWER TRANSFORMER
Z501
Q508
+B
Regulator
Q509,
Q510
/TUN
Switch
D507,D508,
D547,D548
S501
Q512
+B
Regulator
VOLTAGE SELECTOR
D501,D502,D509,
D510,D530,D531
Q216
-B
Regulator
F2
FOR GC/GCS/GT ONLY
TO FL DISPLAY
T502
Q592
D598
+B
Regulator
Q593
D591,D592
+B
Regulator
SUB TRANSFORMER
FOR GC/GCS/GT ONLY
Q594
SYNC
Switch (SYNC)

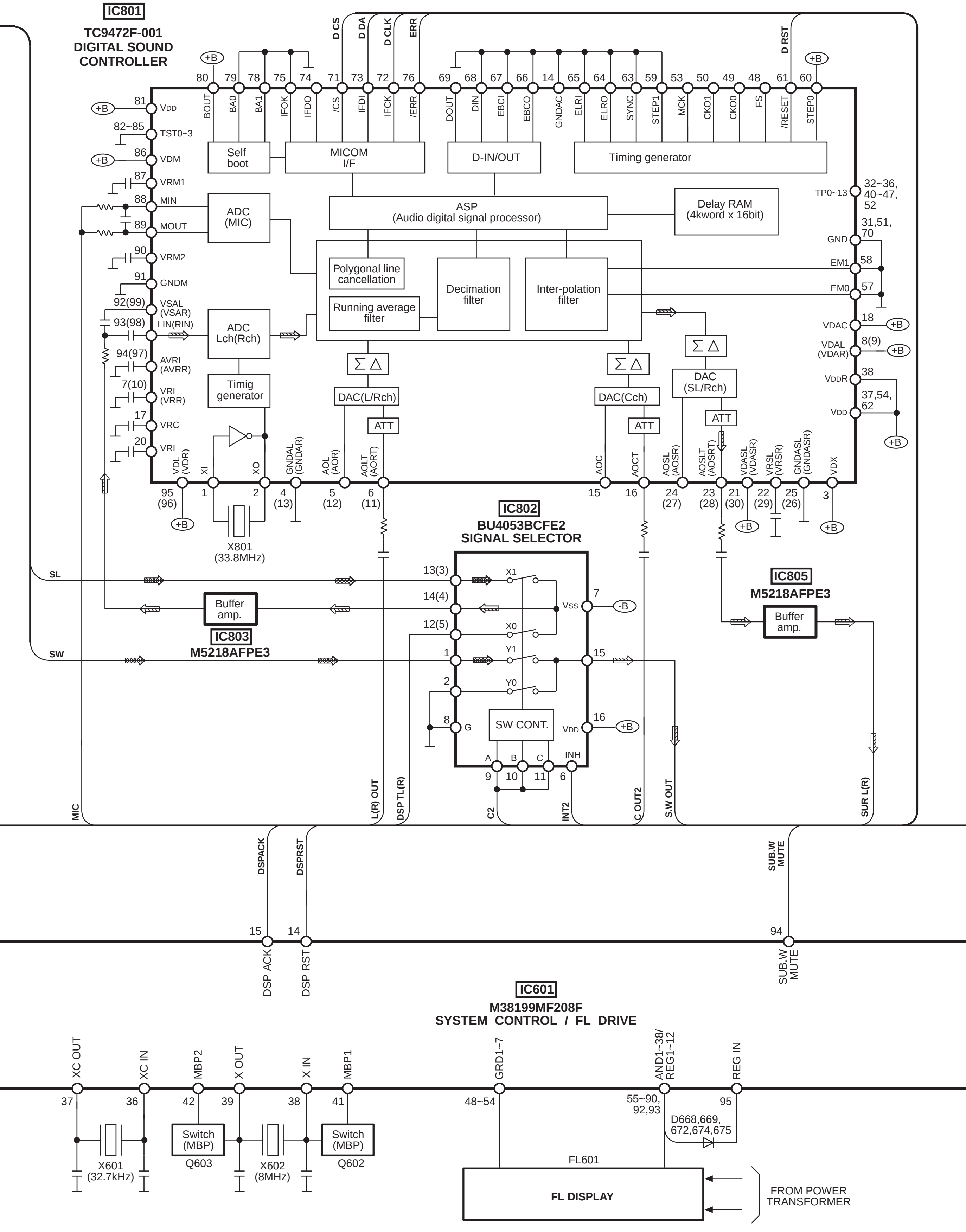
FOR GK ONLY

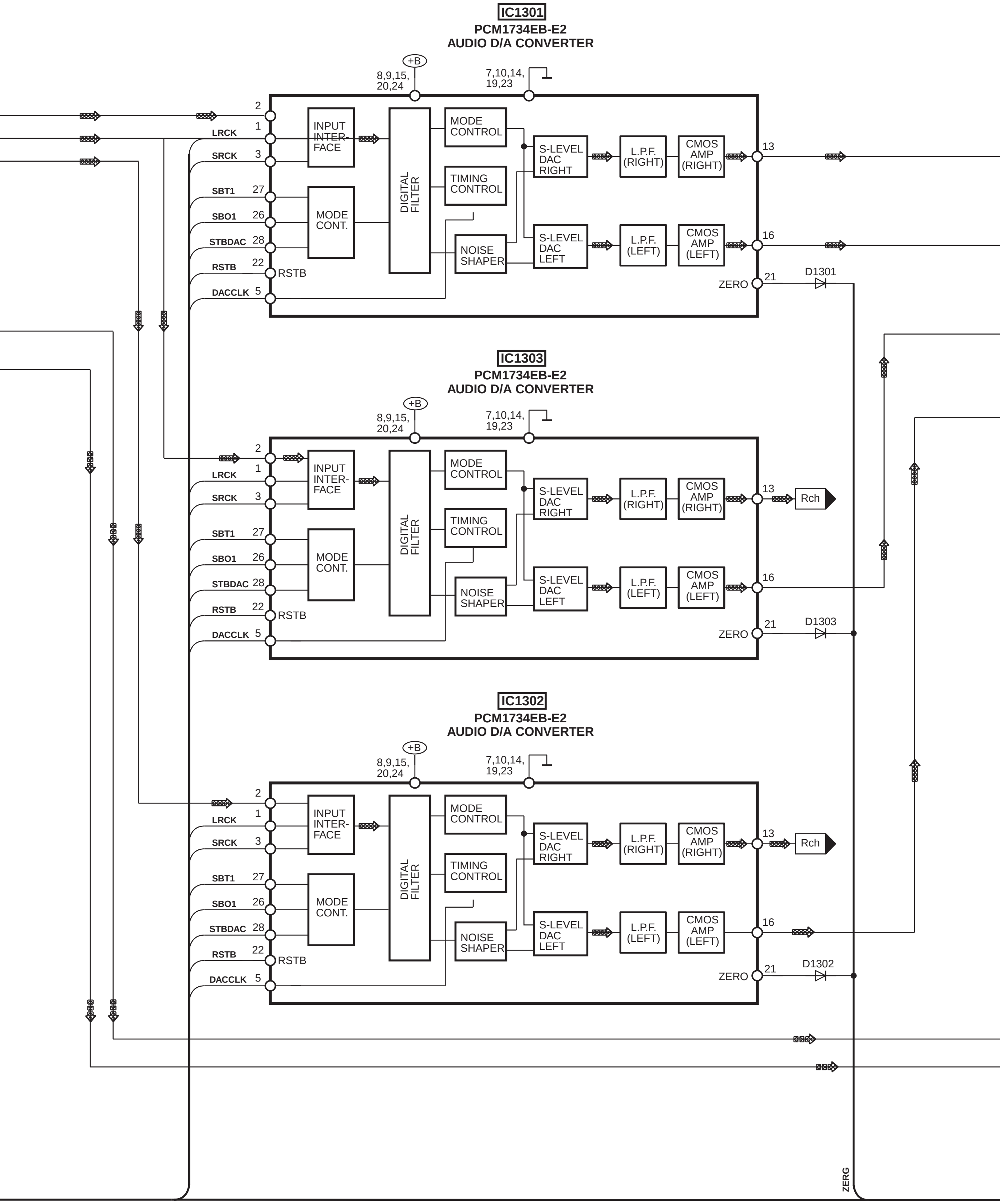

FM ANT
Z120 (FM FRONT END)
RF amp.
FM mixer
Local OSC
Buffer amp.
1
5
7
3
4
6
8
+B
CF201
FM IF amp.
Q101,Q102
CF202
AM ANT
Z101
AM ANT coil
AM OSC coil
+B
IC101
LA1833NMNTLM
FM / AM I F AMP,
DET / AM OSC,
MIX / FM MPX
Rch
3
22
23
21
20
19
18
17
16
15
13
14
REG
AFC
OSC
AM RF IN
AGC
AM OUT
DET OUT
PILOT IN
MPX IN
PILOT OUT
Lch
Rch
Decoder
ALC
AM OSC
AM MIX
AM RF amp.
AGC
24
OSC OUT
Buffer
Phase det.
Stereo switch
Pilot cancel
AM IF
AM det.
Level det.
AM/FM
IF buffer
Comp.
1
FM IF IN
FM IF
S-curve
VCO
FF
FF
FF
Pilot det.
FM det.
Tuning Drive
Vcc
FMDET
AM MIX OUT
AM IF IN
SD
STRQ
GND
FM/AM
MONO
ST
9
8
2
4
6
10
5
11
12
7
Z102
AM IFT
+B
X102
(10.6MHz)
+B
SD
18
AOUT
17
AIN
16
PD
X103
(7.2MHz)
XIN
1
Phase detector charge pump
Reference divider
XOUT
20
11
IFIN
FM IN
14
Swallow counter 1/6,1/17 4bit
1/2
IC102
LC72131MDTRM
PLL FREQUENCY
SYNTHESIZER
12 bit programmable divider
AM IN
13
CE
2
DI
3
CL
4
DO
5
AM
6
SER7
SER3
SER4
DO/ST
15
VDD
+B
Universal counter
Data shift register latch
(FM)
+B
Q106
Power supply
(FM:ON)
19
VSS
Power ON reset
FM
MONO
LW
SDC
STRQ
10
12
7
8
9

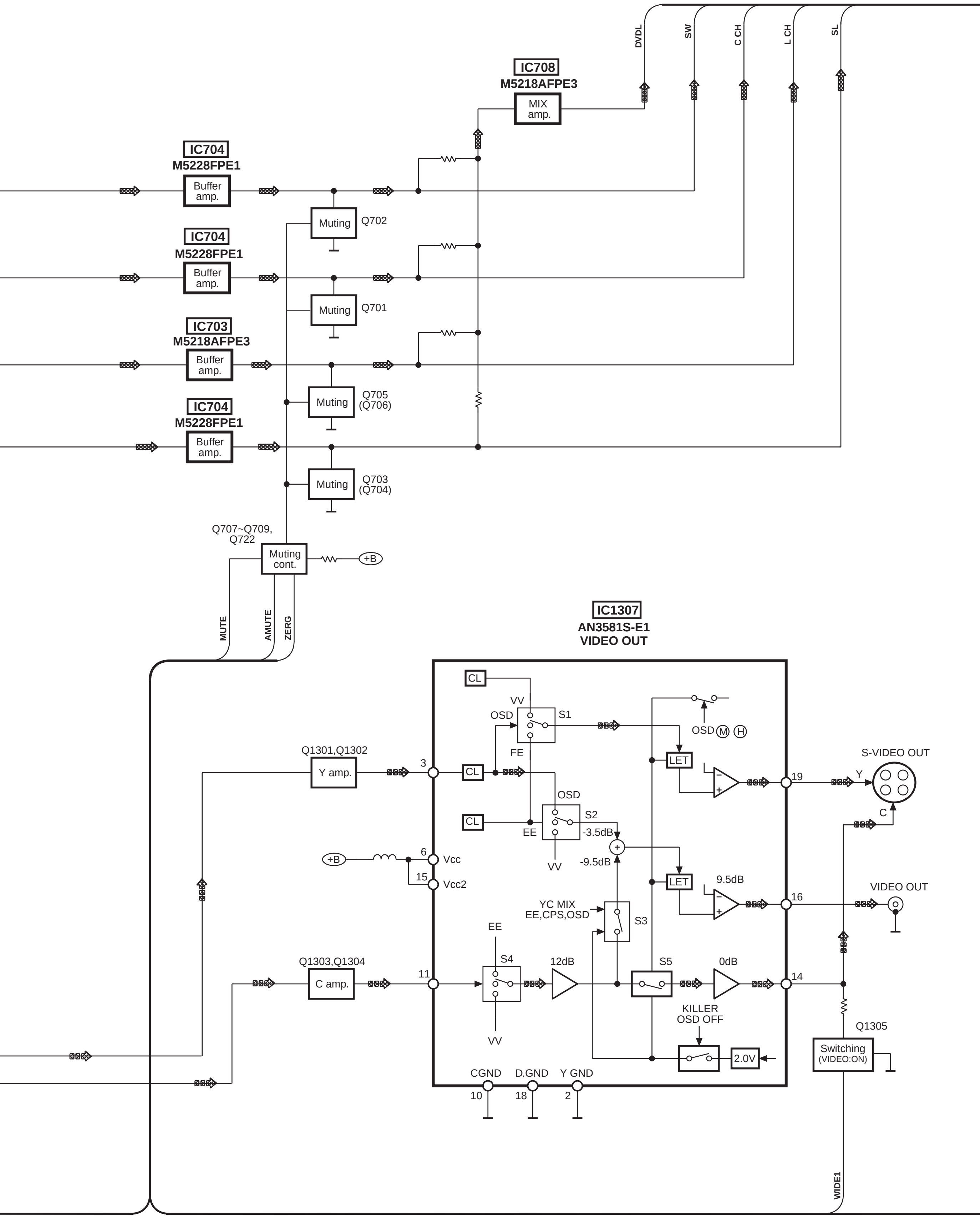
FOR GC/GCS/GT/GN ONLY

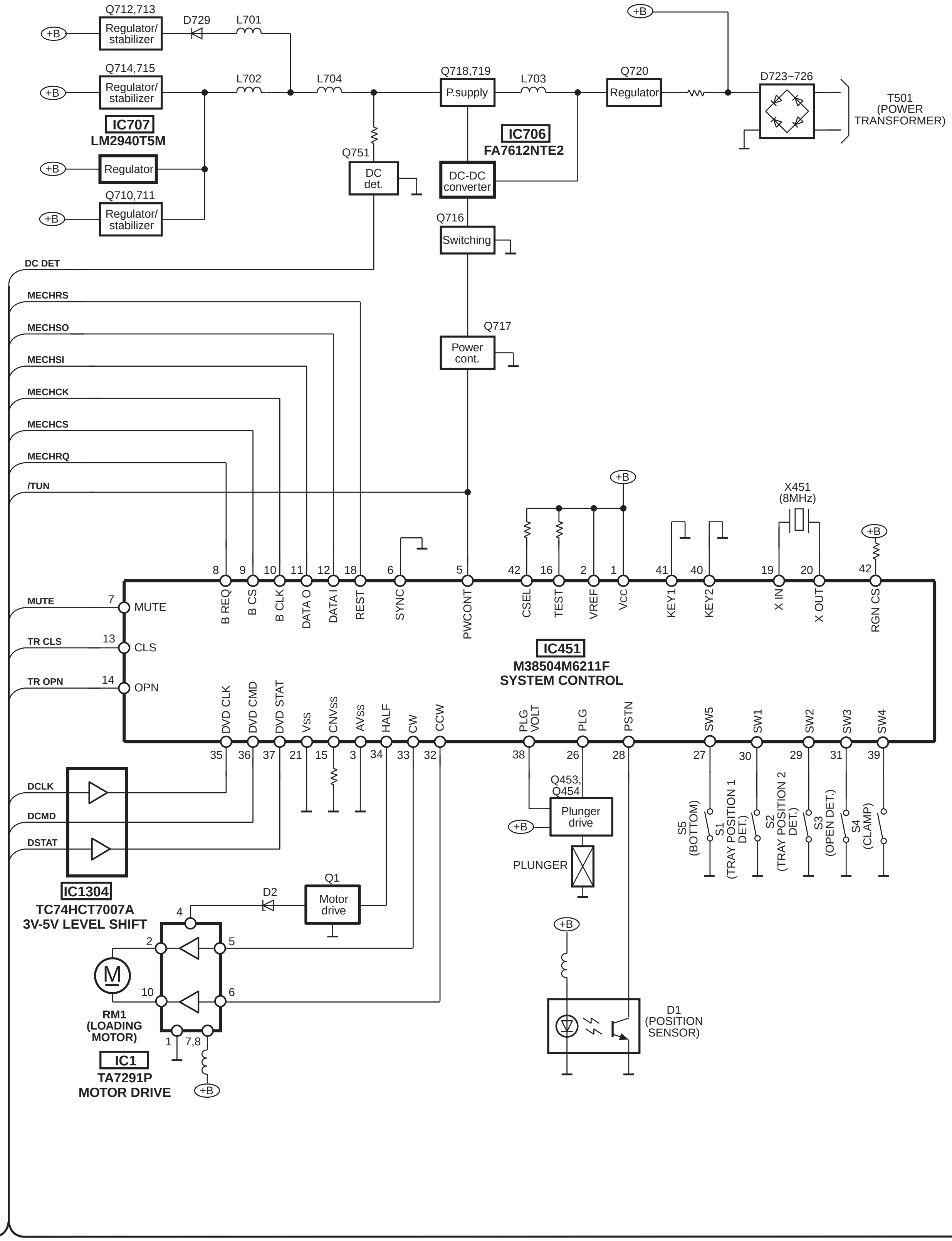

FM ANT
Z120 (FM FRONT END)
Q1
RF amp.
Q2
FM mixer
Q3
Local OSC
Q4
Buffer amp.
1
5
7
3
4
6
8
+B
CF201
FM IF amp.
Q101
CF202
AM ANT
Z101
AM ANT coil
AM OSC coil
+B
IC101
LA1833NMNTLM
FM / AM I F AMP, DET / AM OSC, MIX / FM MPX
Rch
3
22
23
21
20
19
18
17
16
15
13
14
REG
AFC
OSC
AM RF IN
AGC
AM OUT
DET OUT
PILOT IN
MPX IN
PILOT OUT
Lch
Rch
Decoder
ALC
Buffer
AM OSC
AM MIX
AM RF amp.
AGC
24
OSC OUT
Phase det.
Stereo switch
Pilot cancel
AM IF
AM det.
Level det.
AM/FM
IF buffer
1
FM IF IN
FM IF
S-curve
Comp.
VCO
FF
FF
FF
Pilot det.
FM det.
Tuning Drive
Vcc
FMDET
AM MIX OUT
AM IF IN
SD
STRQ
GND
FM/AM
MONO
ST
9
8
2
4
6
10
5
11
12
7
+B
X102 (10.6MHz)
Z102
AM IFT
+B
SD
X103 (7.2MHz)
18
AOUT
17
AIN
16
PD
Phase detector charge pump
Reference divider
XIN
1
XOUT
20
11
IFIN
Swallow counter 1/6,1/17 4bit
1/2
FM IN
14
12 bit programmable divider
AM IN
13
IC102
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER
CE
2
DI
3
CL
4
DO
5
AM
6
SER7
SER3
SER4
DO/ST
15
VDD
+B
Universal counter
Data shift register latch
Power ON reset
19
Vss
+B
Q106
Power supply (FM:ON)
FM
MONO
LW
SDC
STRQ
10
12
7
8
9

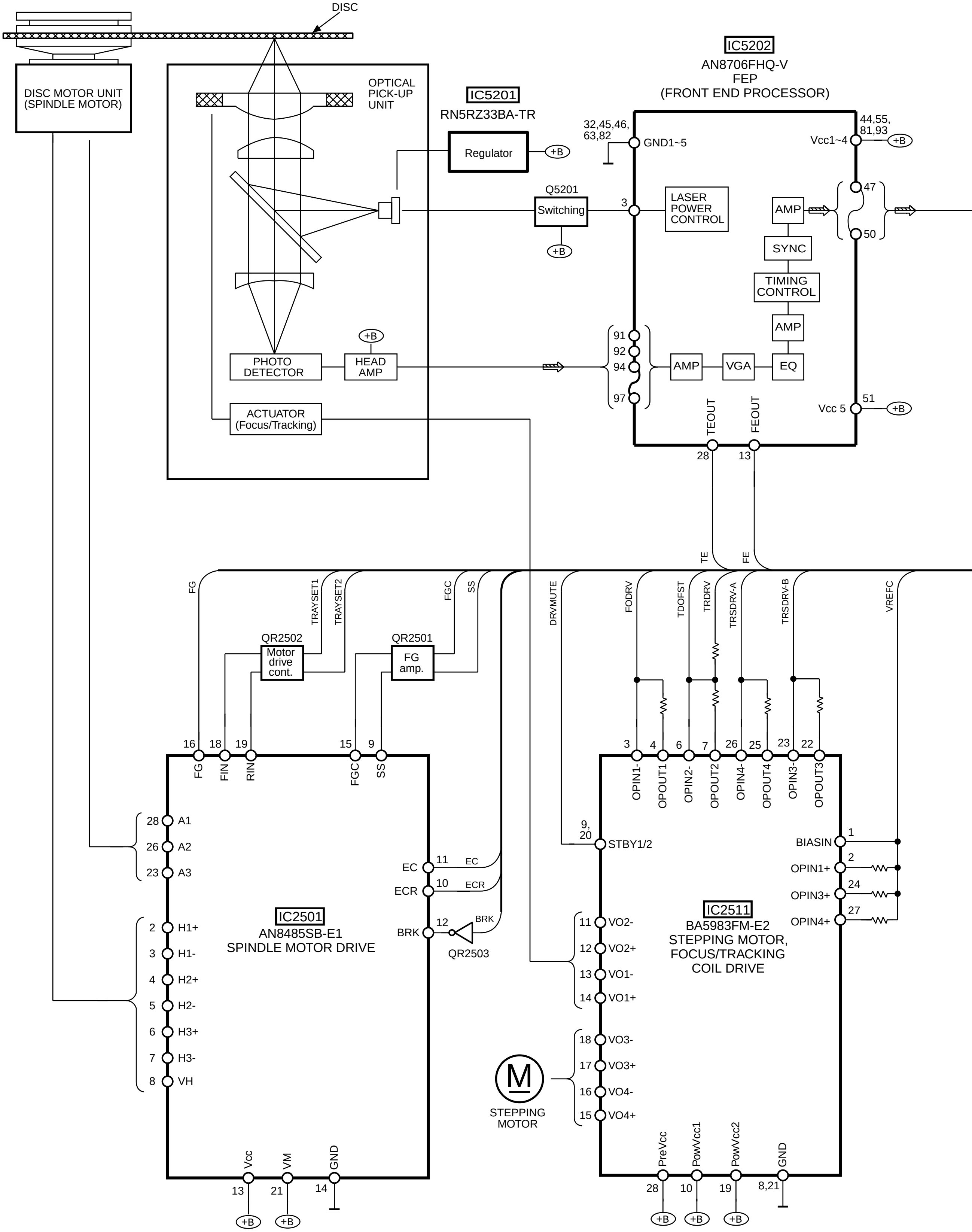

IC201
M62433AFP
DIGITAL SOUND
CONTROLLER
78 (67)
77 (68)
76 (69)
74 (71)
75 (70)
79 (66)
36
31
AVDD
DVDD
AVSS
AGND
DGND
72
73
35
3 (63)
61
4 (62)
28 (37)
27 (38)
26 (39)
24 (41)
23 (42)
22 (43)
9~20 (45~56)
21 (44)
30
5 (60)
7 (58)
32
33
34
-B
+B
AUX3
TAPE
PLAY
BACK
DVDL
AUX1
PHONO/
AUX
AUX2
VIDEO/
MD
E
D
C
A
B
F
OFF
Rch
Rch
Rch
JK703
LINE OUT
LCH(RCH)
6 (59)
80
65
64
2
1
8 (57)
29
NF
Graphic
equalizer
Microcomputer
interface
N F
Filter
IC804
BU4053BCFE2
SIGNAL SELECTOR
7
Vss
-B
X0
X1
Y0
Y1
13(3)
L CH
1
C CH
8
G
SW CONT.
VDD
+B
12(5)
14(4)
2
15
16
A
B
C
INH
9
10
11
6
MIC
A1
B1
C1
INT1
C OUT1
C OUT2
L(R) OUT
SR L(R)
SUR L(R)
FQ L(R)
DSP TL(R)
SER4
SER2
VR601
(VOLUME)
KEY SW
9
10
6~8
30
32
28
JOG1B
JOG1A
KEY1~3
SER4
SER2
SER5
IC601
M38199MF208F
SYSTEM CONTROL / FL DRIVE
MECH RS
MECH SO
MECH RQ
MECH SI
MECH CK
MECH CS
SER7
DO/ST
SER3
SD IN
CRT
AVSS
VSS
97
21
23
22
20
19
26
44
31
43
11
99
40
D651
MECHRS
MECHSO
MECHRQ
MECHSI
MECHCK
MECHCS
SER7
DO/ST
SER3
SD

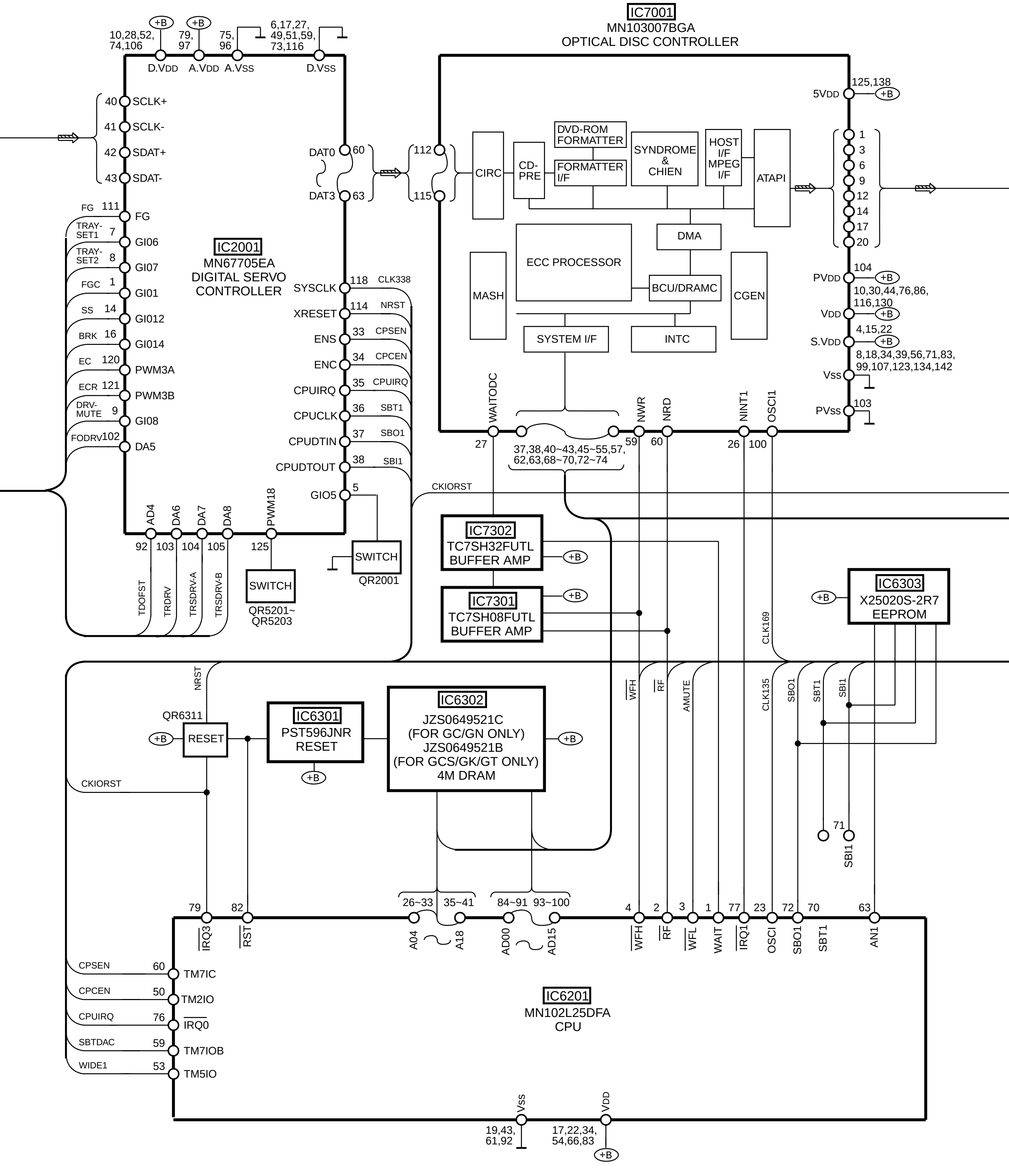

IC801
TC9472F-001
DIGITAL SOUND CONTROLLER
+B
80 BOUT
79 BA0
78 BA1
75 IFOK
74 IFDO
71 /CS
73 IFDI
72 IFCK
76 /ERR
D CS
D DA
D CLK
ERR
69 DOUT
68 DIN
67 EBCI
66 EBCO
14 GNDAC
65 ELRI
64 ELRO
63 SYNC
59 STEP1
53 MCK
50 CKO1
49 CKO0
48 FS
61 /RESET
60 STEP0
D RST
81 VDD
82~85 TST0~3
86 VDM
87 VRM1
88 MIN
89 MOUT
90 VRM2
91 GNDM
92(99) VSAL (VSAR)
93(98) LIN(RIN)
94(97) AVRL (AVRR)
7(10) VRL (VRR)
17 VRC
20 VRI
Self boot
MICOM I/F
D-IN/OUT
Timing generator
ADC (MIC)
ASP (Audio digital signal processor)
Delay RAM (4kword x 16bit)
Polygonal line cancellation
Running average filter
Decimation filter
Inter-polation filter
ADC Lch(Rch)
Timig generator
Σ Δ
DAC(L/Rch)
ATT
DAC(Cch)
DAC (SL/Rch)
TP0~13 32~36, 40~47, 52
GND 31,51, 70
EM1 58
EM0 57
VDAC 18
VDAL (VDAR) 8(9)
VDDR 38
VDD 37,54, 62
VDL (VDR) 95 (96)
XI 1
XO 2
GNDAL (GNDAR) 4 (13)
AOL (AOR) 5 (12)
AOLT (AORT) 6 (11)
AOC 15
AOCT 16
AOSL (AOSR) 24 (27)
AOSLT (AOSRT) 23 (28)
VDASL (VDASR) 21 (30)
VRSL (VRSR) 22 (29)
GNDASL (GNDASR) 25 (26)
VDX 3
X801 (33.8MHz)
IC802
BU4053BCFE2
SIGNAL SELECTOR
SL
SW
13(3) X1
14(4)
12(5) X0
1 Y1
2 Y0
8 G
7 VSS -B
15
16 VDD +B
SW CONT.
A 9
B 10
C 11
INH 6
Buffer amp.
IC803
M5218AFPE3
IC805
M5218AFPE3
Buffer amp.
MIC
L(R) OUT
DSP TL(R)
C2
INT2
C OUT2
S.W OUT
SUR L(R)
DSPACK
DSPRST
SUB.W MUTE
15 DSP ACK
14 DSP RST
94 SUB.W MUTE
IC601
M38199MF208F
SYSTEM CONTROL / FL DRIVE
37 XC OUT
36 XC IN
42 MBP2
39 X OUT
38 X IN
41 MBP1
48~54 GRD1~7
55~90, 92,93 AND1~38/ REG1~12
95 REG IN
Switch (MBP) Q603
X601 (32.7kHz)
X602 (8MHz)
Switch (MBP) Q602
D668,669, 672,674,675
FL601
FL DISPLAY
FROM POWER TRANSFORMER

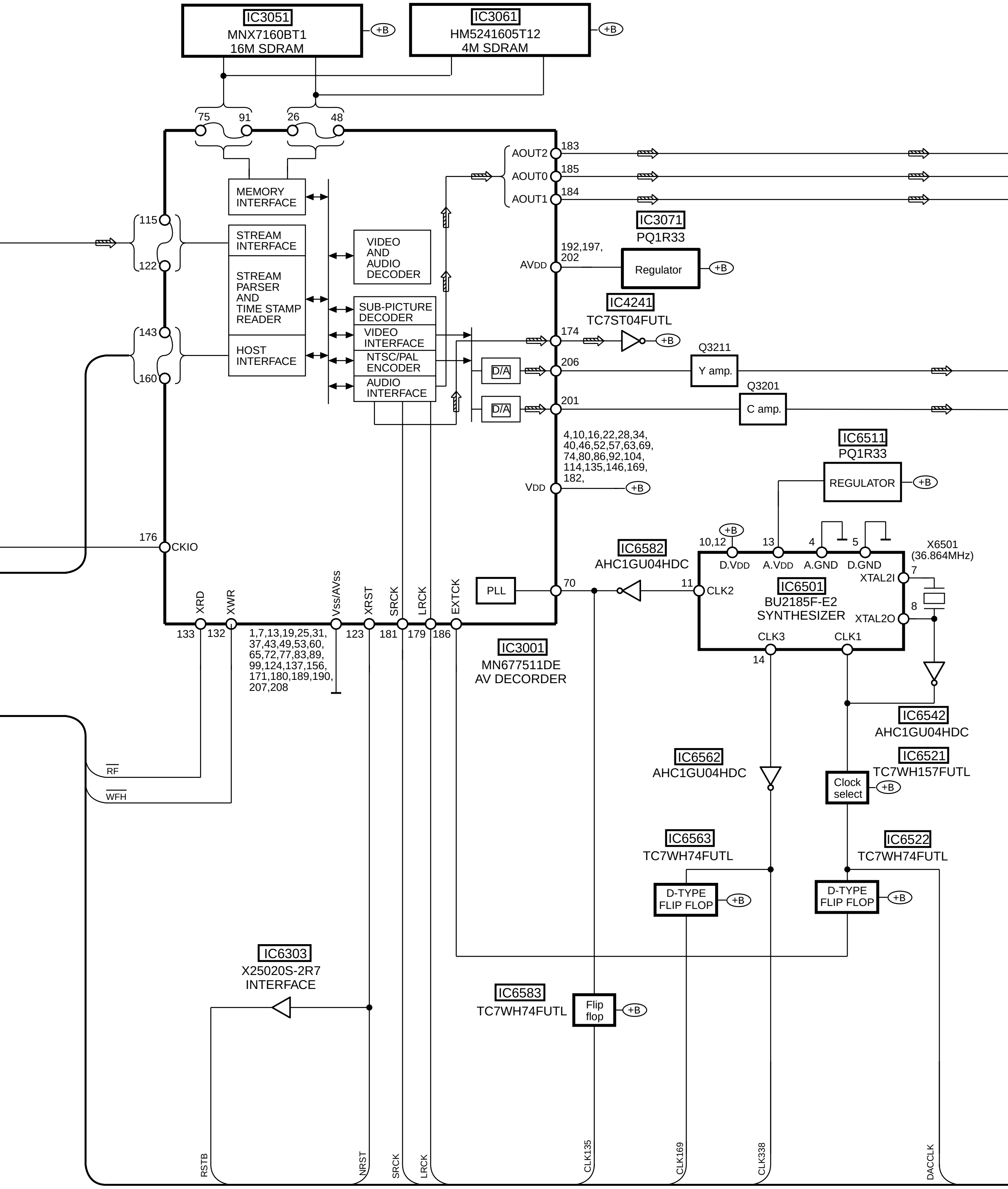

IC1301
PCM1734EB-E2
AUDIO D/A CONVERTER
+B
8,9,15,
20,24
7,10,14,
19,23
2
1
LRCK
SRCK
3
SBT1 27
SBO1 26
STBDAC 28
RSTB 22
RSTB
DACCLK 5
INPUT
INTER-
FACE
MODE
CONT.
DIGITAL
FILTER
MODE
CONTROL
TIMING
CONTROL
NOISE
SHAPER
S-LEVEL
DAC
RIGHT
S-LEVEL
DAC
LEFT
L.P.F.
(RIGHT)
L.P.F.
(LEFT)
CMOS
AMP
(RIGHT)
CMOS
AMP
(LEFT)
13
16
21
ZERO
D1301
IC1303
PCM1734EB-E2
AUDIO D/A CONVERTER
+B
8,9,15,
20,24
7,10,14,
19,23
2
1
LRCK
SRCK
3
SBT1 27
SBO1 26
STBDAC 28
RSTB 22
RSTB
DACCLK 5
INPUT
INTER-
FACE
MODE
CONT.
DIGITAL
FILTER
MODE
CONTROL
TIMING
CONTROL
NOISE
SHAPER
S-LEVEL
DAC
RIGHT
S-LEVEL
DAC
LEFT
L.P.F.
(RIGHT)
L.P.F.
(LEFT)
CMOS
AMP
(RIGHT)
CMOS
AMP
(LEFT)
13
Rch
16
21
ZERO
D1303
IC1302
PCM1734EB-E2
AUDIO D/A CONVERTER
+B
8,9,15,
20,24
7,10,14,
19,23
2
1
LRCK
SRCK
3
SBT1 27
SBO1 26
STBDAC 28
RSTB 22
RSTB
DACCLK 5
INPUT
INTER-
FACE
MODE
CONT.
DIGITAL
FILTER
MODE
CONTROL
TIMING
CONTROL
NOISE
SHAPER
S-LEVEL
DAC
RIGHT
S-LEVEL
DAC
LEFT
L.P.F.
(RIGHT)
L.P.F.
(LEFT)
CMOS
AMP
(RIGHT)
CMOS
AMP
(LEFT)
13
Rch
16
21
ZERO
D1302
ZERG


DVDL
SW
C CH
L CH
SL
IC708
M5218AFPE3
MIX amp.
IC704
M5228FPE1
Buffer amp.
Muting
Q702
IC704
M5228FPE1
Buffer amp.
Muting
Q701
IC703
M5218AFPE3
Buffer amp.
Muting
Q705 (Q706)
IC704
M5228FPE1
Buffer amp.
Muting
Q703 (Q704)
Q707~Q709, Q722
Muting cont.
+B
MUTE
AMUTE
ZERG
IC1307
AN3581S-E1
VIDEO OUT
CL
VV
OSD
S1
FE
OSD Ⓜ Ⓗ
Q1301,Q1302
Y amp.
3
CL
LET
19
S-VIDEO OUT
Y
C
OSD
CL
S2
EE
-3.5dB
VV
-9.5dB
+B
6
Vcc
15
Vcc2
LET
9.5dB
16
VIDEO OUT
YC MIX
EE,CPS,OSD
S3
EE
S4
12dB
S5
0dB
Q1303,Q1304
C amp.
11
14
KILLER
OSD OFF
Q1305
VV
2.0V
Switching
(VIDEO:ON)
CGND
D.GND
Y GND
10
18
2
WIDE1


Q712,713
Regulator/ stabilizer
D729
L701
+B
Q714,715
Regulator/ stabilizer
L702
L704
Q718,719
P.supply
L703
Q720
Regulator
D723~726
T501 (POWER TRANSFORMER)
IC707
LM2940T5M
Regulator
Q710,711
Regulator/ stabilizer
Q751
DC det.
IC706
FA7612NTE2
DC-DC converter
Q716
Switching
Q717
Power cont.
DC DET
MECHRS
MECHSO
MECHSI
MECHCK
MECHCS
MECHRQ
/TUN
X451 (8MHz)
8 B REQ
9 B CS
10 B CLK
11 DATA O
12 DATA I
18 REST
6 SYNC
5 PWCONT
42 CSEL
16 TEST
2 VREF
1 Vcc
41 KEY1
40 KEY2
19 X IN
20 X OUT
42 RGN CS
MUTE 7 MUTE
TR CLS 13 CLS
TR OPN 14 OPN
IC451
M38504M6211F
SYSTEM CONTROL
35 DVD CLK
36 DVD CMD
37 DVD STAT
21 Vss
15 CNVss
3 AVss
34 HALF
33 CW
32 CCW
38 PLG VOLT
26 PLG
28 PSTN
27 SW5
30 SW1
29 SW2
31 SW3
39 SW4
DCLK
DCMD
DSTAT
IC1304
TC74HCT7007A
3V-5V LEVEL SHIFT
Q453, Q454
Plunger drive
PLUNGER
S5 (BOTTOM)
S1 (TRAY POSITION 1 DET.)
S2 (TRAY POSITION 2 DET.)
S3 (OPEN DET.)
S4 (CLAMP)
D2
Q1
Motor drive
4
2
5
10
6
1
7,8
M
RM1 (LOADING MOTOR)
IC1
TA7291P
MOTOR DRIVE
D1 (POSITION SENSOR)


DISC
DISC MOTOR UNIT (SPINDLE MOTOR)
OPTICAL PICK-UP UNIT
IC5201
RN5RZ33BA-TR
Regulator
+B
Q5201
Switching
+B
PHOTO DETECTOR
HEAD AMP
+B
ACTUATOR (Focus/Tracking)
IC5202
AN8706FHQ-V
FEP
(FRONT END PROCESSOR)
32,45,46, 63,82
GND1~5
44,55, 81,93
Vcc1~4
+B
3
LASER POWER CONTROL
AMP
SYNC
TIMING CONTROL
AMP
EQ
VGA
AMP
47
50
91
92
94
97
51
Vcc 5
+B
TEOUT
FEOUT
28
13
TE
FE
FG
TRAYSET1
TRAYSET2
FGC
SS
DRVMUTE
FODRV
TDOFST
TRDRV
TRSDRV-A
TRSDRV-B
VREFC
QR2502
Motor drive cont.
QR2501
FG amp.
16
18
19
15
9
FG
FIN
RIN
FGC
SS
28 A1
26 A2
23 A3
2 H1+
3 H1-
4 H2+
5 H2-
6 H3+
7 H3-
8 VH
EC 11 EC
ECR 10 ECR
BRK 12 BRK
QR2503
IC2501
AN8485SB-E1
SPINDLE MOTOR DRIVE
Vcc
VM
GND
13
21
14
+B
+B
3
4
6
7
26
25
23
22
OPIN1-
OPOUT1
OPIN2-
OPOUT2
OPIN4-
OPOUT4
OPIN3-
OPOUT3
9, 20
STBY1/2
1 BIASIN
2 OPIN1+
24 OPIN3+
27 OPIN4+
IC2511
BA5983FM-E2
STEPPING MOTOR, FOCUS/TRACKING COIL DRIVE
11 VO2-
12 VO2+
13 VO1-
14 VO1+
18 VO3-
17 VO3+
16 VO4-
15 VO4+
M
STEPPING MOTOR
PreVcc
PowVcc1
PowVcc2
GND
28
10
19
8,21
+B
+B
+B


IC7001
MN103007BGA
OPTICAL DISC CONTROLLER
IC2001
MN67705EA
DIGITAL SERVO
CONTROLLER
IC6201
MN102L25DFA
CPU
IC7302
TC7SH32FUTL
BUFFER AMP
IC7301
TC7SH08FUTL
BUFFER AMP
IC6303
X25020S-2R7
EEPROM
IC6301
PST596JNR
RESET
IC6302
JZS0649521C
(FOR GC/GN ONLY)
JZS0649521B
(FOR GCS/GK/GT ONLY)
4M DRAM
QR6311
RESET
SWITCH
QR2001
SWITCH
QR5201~
QR5203
+B
10,28,52,
74,106
D.VDD
79,
97
A.VDD
75,
96
A.VSS
6,17,27,
49,51,59,
73,116
D.VSS
40 SCLK+
41 SCLK-
42 SDAT+
43 SDAT-
FG 111 FG
TRAY-SET1 7 GI06
TRAY-SET2 8 GI07
FGC 1 GI01
SS 14 GI012
BRK 16 GI014
EC 120 PWM3A
ECR 121 PWM3B
DRV-MUTE 9 GI08
FODRV 102 DA5
DAT0 60
DAT3 63
SYSCLK 118 CLK338
XRESET 114 NRST
ENS 33 CPSEN
ENC 34 CPCEN
CPUIRQ 35 CPUIRQ
CPUCLK 36 SBT1
CPUDTIN 37 SBO1
CPUDTOUT 38 SBI1
GIO5 5
AD4 92
DA6 103
DA7 104
DA8 105
PWM18 125
TDOFST
TRDRV
TRSDRV-A
TRSDRV-B
112
115
CIRC
CD-PRE
DVD-ROM FORMATTER
FORMATTER I/F
SYNDROME & CHIEN
HOST I/F MPEG I/F
ATAPI
DMA
ECC PROCESSOR
MASH
BCU/DRAMC
CGEN
SYSTEM I/F
INTC
125,138
5VDD
1
3
6
9
12
14
17
20
104
PVDD
10,30,44,76,86,
116,130
VDD
4,15,22
S.VDD
8,18,34,39,56,71,83,
99,107,123,134,142
VSS
103
PVSS
WAITODC 27
37,38,40~43,45~55,57,
62,63,68~70,72~74
NWR 59
NRD 60
NINT1 26
OSCI1 100
CKIORST
CLK169
NRST
WFH
RF
AMUTE
CLK135
SBO1
SBT1
SBI1
71
CKIORST
79 IRQ3
82 RST
26~33
35~41
A04
A18
84~91
93~100
AD00
AD15
4 WFH
2 RF
3 WFL
1 WAIT
77 IRQ1
23 OSCI
72 SBO1
70 SBT1
63 AN1
CPSEN 60 TM7IC
CPCEN 50 TM2IO
CPUIRQ 76 IRQ0
SBTDAC 59 TM7IOB
WIDE1 53 TM5IO
VSS
19,43,
61,92
VDD
17,22,34,
54,66,83


IC3051
MNX7160BT1
16M SDRAM
+B
IC3061
HM5241605T12
4M SDRAM
+B
75
91
26
48
MEMORY INTERFACE
STREAM INTERFACE
STREAM PARSER AND TIME STAMP READER
HOST INTERFACE
VIDEO AND AUDIO DECODER
SUB-PICTURE DECODER
VIDEO INTERFACE
NTSC/PAL ENCODER
AUDIO INTERFACE
115
122
143
160
176
CKIO
AOUT2
AOUT0
AOUT1
183
185
184
192,197, 202
AVDD
IC3071
PQ1R33
Regulator
+B
IC4241
TC7ST04FUTL
174
+B
Q3211
Y amp.
206
D/A
D/A
201
Q3201
C amp.
4,10,16,22,28,34, 40,46,52,57,63,69, 74,80,86,92,104, 114,135,146,169, 182,
VDD
+B
IC6511
PQ1R33
REGULATOR
+B
+B
10,12
13
4
5
D.VDD
A.VDD
A.GND
D.GND
X6501 (36.864MHz)
7
XTAL2I
8
XTAL2O
IC6582
AHC1GU04HDC
11
CLK2
IC6501
BU2185F-E2
SYNTHESIZER
CLK3
CLK1
14
PLL
70
XRD
XWR
Vss/AVss
XRST
SRCK
LRCK
EXTCK
133
132
1,7,13,19,25,31, 37,43,49,53,60, 65,72,77,83,89, 99,124,137,156, 171,180,189,190, 207,208
123
181
179
186
IC3001
MN677511DE
AV DECORDER
IC6542
AHC1GU04HDC
IC6521
TC7WH157FUTL
Clock select
+B
IC6562
AHC1GU04HDC
IC6563
TC7WH74FUTL
D-TYPE FLIP FLOP
+B
IC6522
TC7WH74FUTL
D-TYPE FLIP FLOP
+B
RF
WFH
IC6303
X25020S-2R7
INTERFACE
IC6583
TC7WH74FUTL
Flip flop
+B
RSTB
NRST
SRCK
LRCK
CLK135
CLK169
CLK338
DACCLK

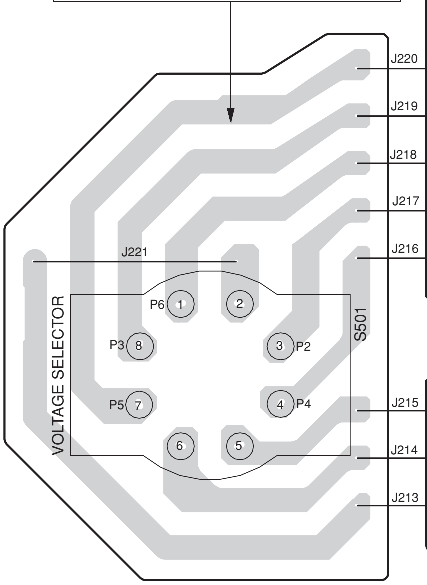
A B C D E F G

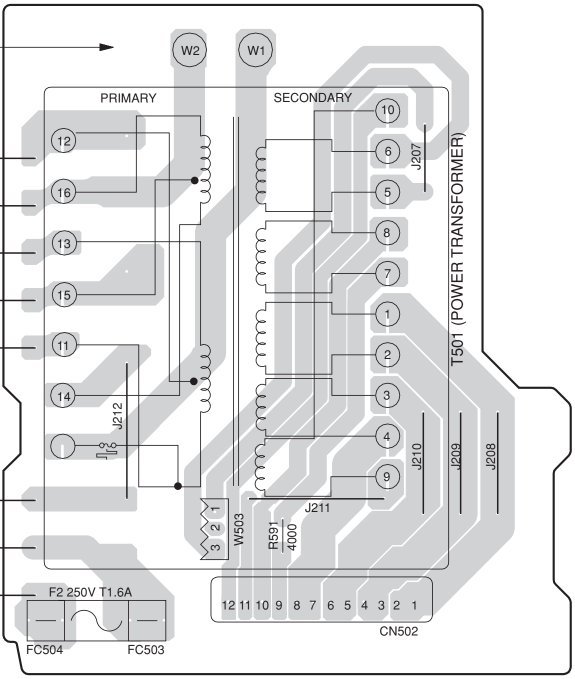
1 2 3 4 5 6 7 8 9

Q VOLTAGE SELECTOR P.C.B. (REP2943E...GC/GCS/GT)

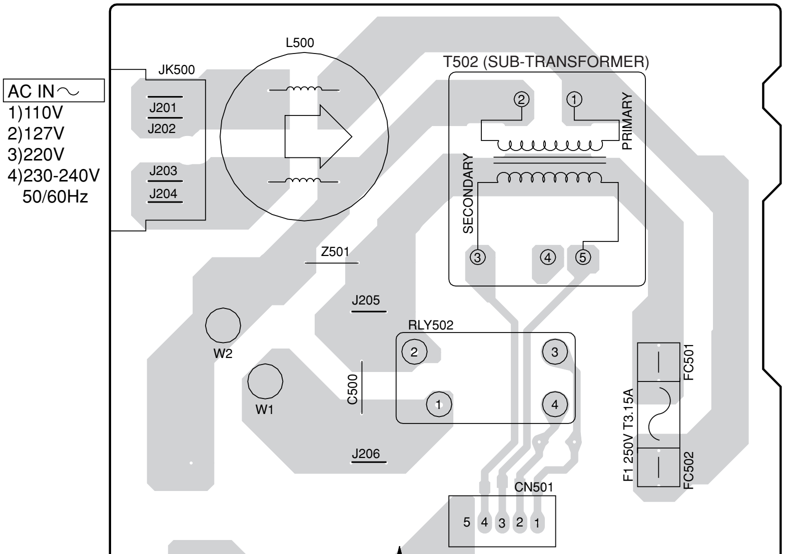
N AC TRANSFORMER P.C.B. (REP2943E...GC/GCS/GT)

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B.

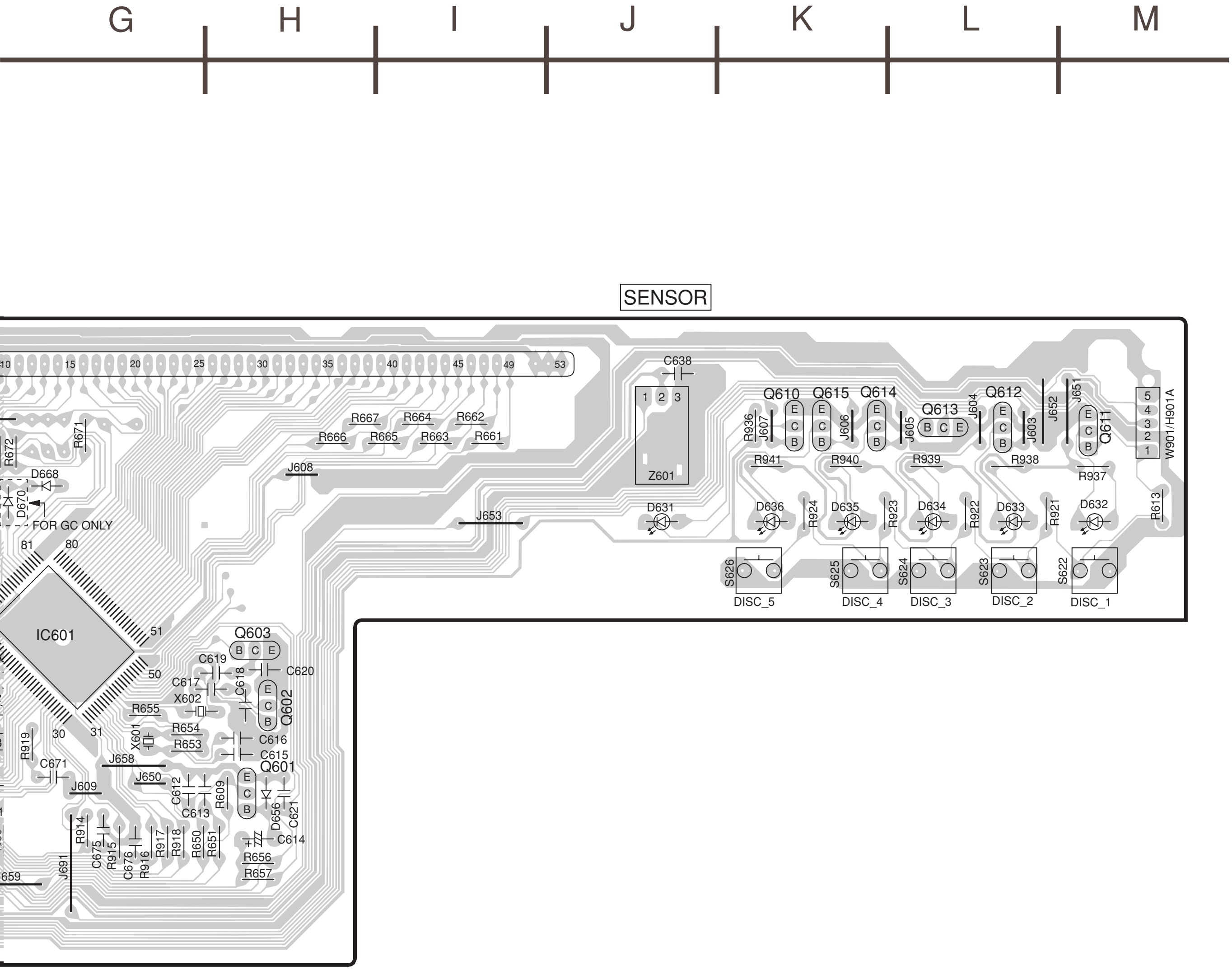

J220
J219
J218
J217
J216
J221
S501
VOLTAGE SELECTOR
P6 1
2
P3 8
3 P2
P5 7
4 P4
6
5
J215
J214
J213


W2
W1
PRIMARY
SECONDARY
12
16
13
15
11
14
J212
10
6
5
8
7
1
2
3
4
9
J207
T501 (POWER TRANSFORMER)
J210
J209
J208
J211
1 2 3
W503
R591 4000
F2 250V T1.6A
FC504
FC503
12 11 10 9 8 7 6 5 4 3 2 1
CN502

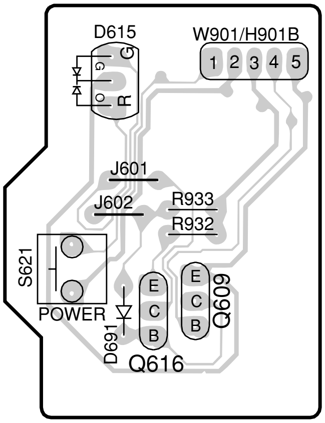
O AC INLET P.C.B. (REP2943E...GC/GCS/GT)


AC IN∼
1)110V
2)127V
3)220V
4)230-240V
50/60Hz
JK500
J201
J202
J203
J204
L500
T502 (SUB-TRANSFORMER)
2
1
PRIMARY
SECONDARY
3
4
5
Z501
J205
RLY502
2
3
1
4
W2
W1
C500
J206
FC501
F1 250V T3.15A
FC502
CN501
5 4 3 2 1

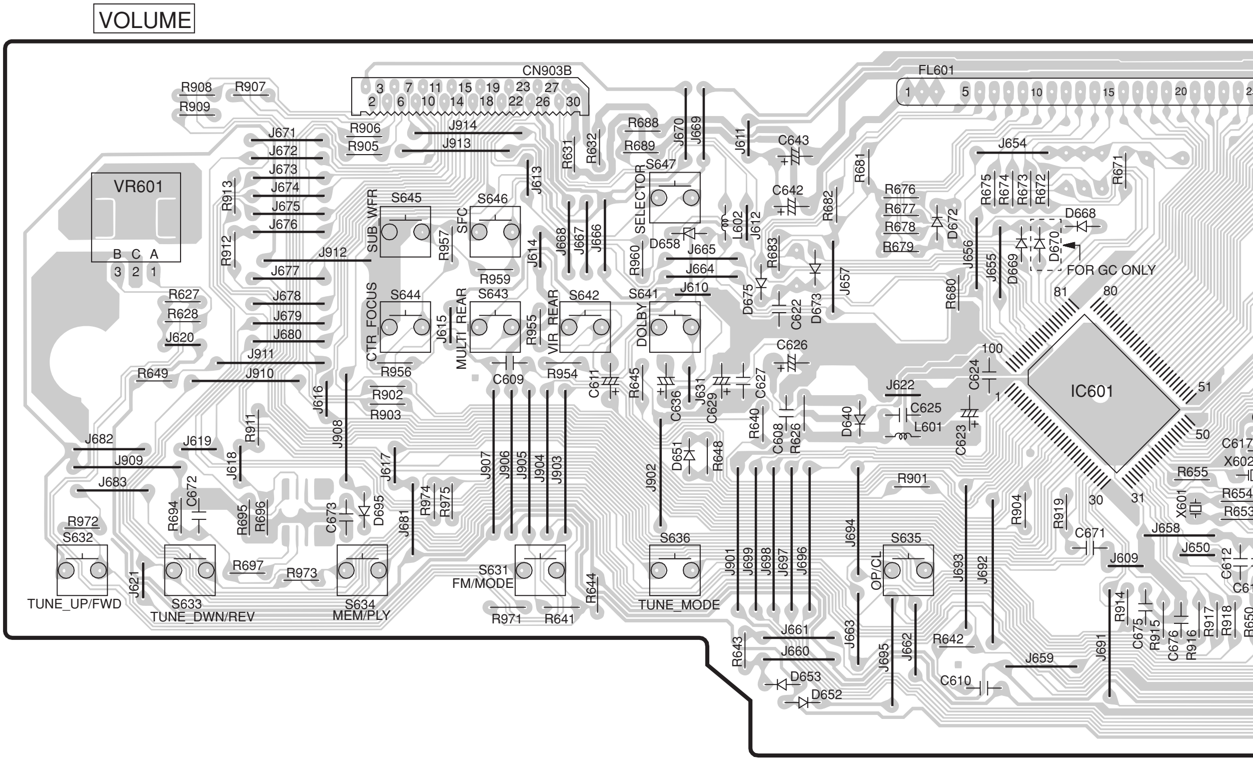
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B.


G
H
I
J
K
L
M
SENSOR
10
15
20
25
30
35
40
45
49
53
C638
1 2 3
Z601
Q610
Q615
Q614
Q613
Q612
Q611
J651
J652
J603
J604
J605
J606
J607
R936
R941
R940
R939
R938
R937
W901/H901A
5 4 3 2 1
R613
D631
D636
D635
D634
D633
D632
R924
R923
R922
R921
S626
S625
S624
S623
S622
DISC_5
DISC_4
DISC_3
DISC_2
DISC_1
R667
R664
R662
R666
R665
R663
R661
J608
J653
R672
R671
D668
D670
FOR GC ONLY
81
80
IC601
51
50
30
31
Q603
B C E
C619
C620
C617
C618
X602
Q602
R655
R654
R653
X601
C616
C615
Q601
R919
C671
J658
J650
J609
C612
C613
R609
D656
C621
C614
R914
C675
R915
C676
R916
R917
R918
R650
R651
R656
R657
J691
659

I POWER SWITCH P.C.B. (REP2946E...GC)
(REP2946D...GCS/GT/GK)


D615
G
R
W901/H901B
1 2 3 4 5
J601
J602
R933
R932
S621
POWER
D691
E C B
Q616
E C B
Q609

J PANEL P.C.B. (REP2946E...GC)
(REP2946D...GCS/GT/GK)


VOLUME
VR601
B C A
3 2 1
CN903B
FL601
IC601
S645 SUB_WFR
S646 SFC
S644 CTR_FOCUS
S643 MULTI_REAR
S642 VIR_REAR
S641 DOLBY
S647 SELECTOR
S632 TUNE_UP/FWD
S633 TUNE_DWN/REV
S634 MEM/PLY
S631 FM/MODE
S636 TUNE_MODE
S635 OP/CL
FOR GC ONLY
X601
X602
D668
D670
D669
D672
D658
D675
D673
D640
D651
D695
D653
D652
L601
L602
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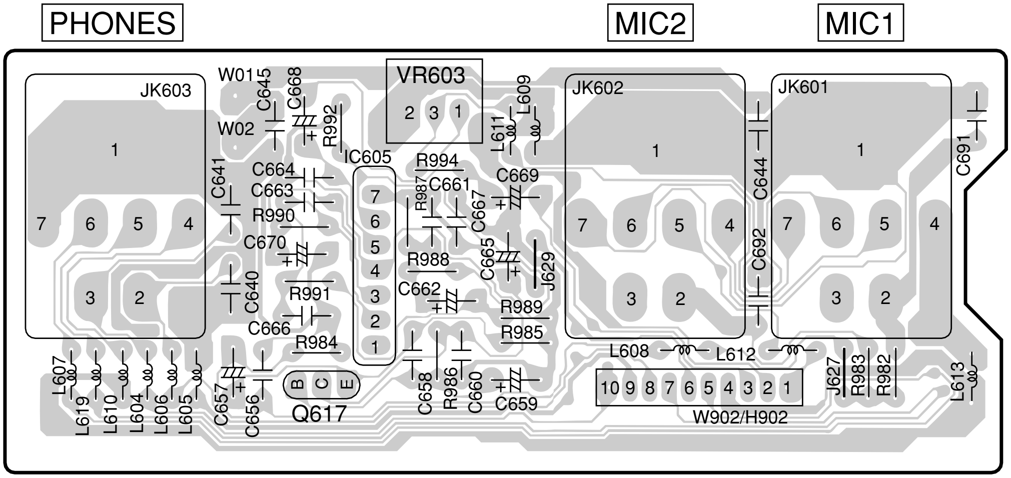
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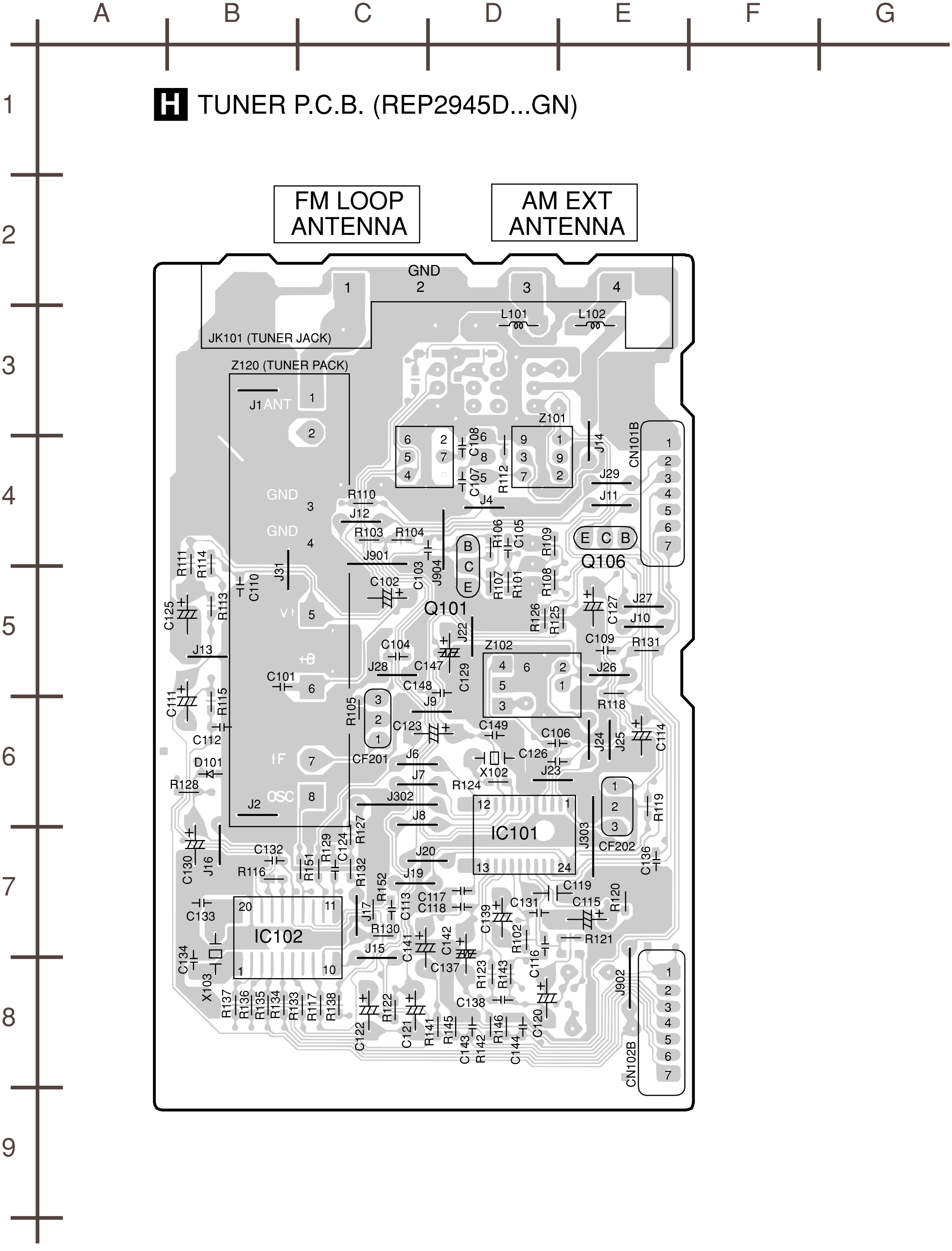
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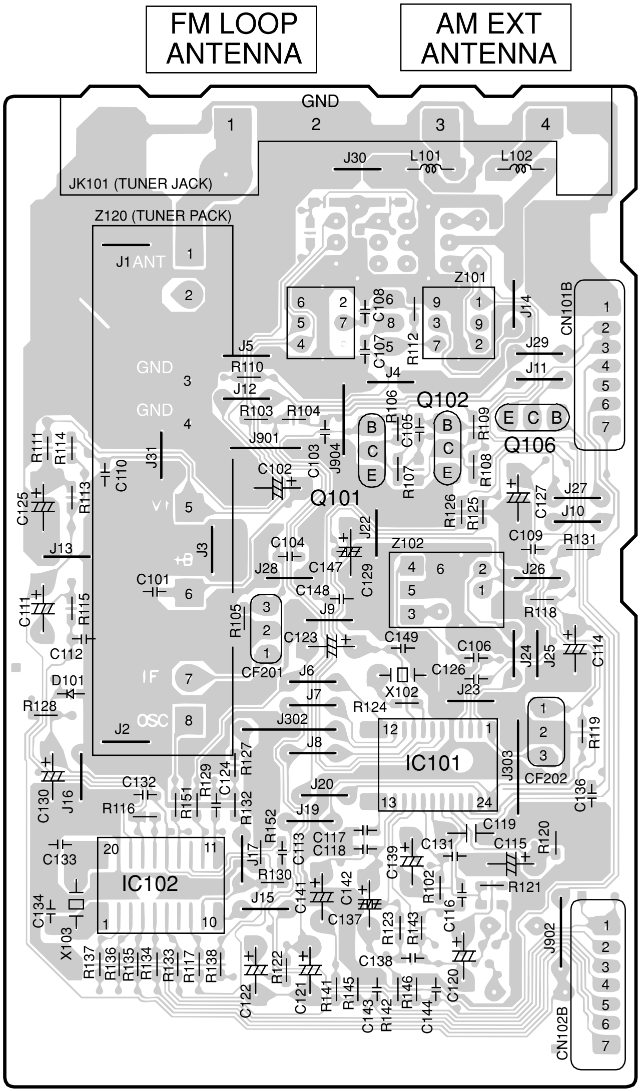

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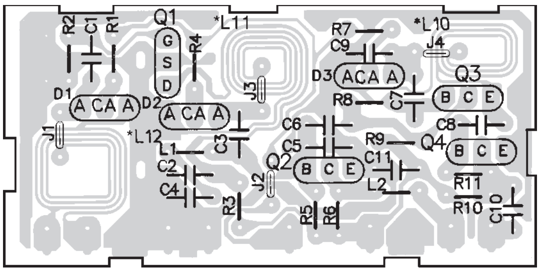

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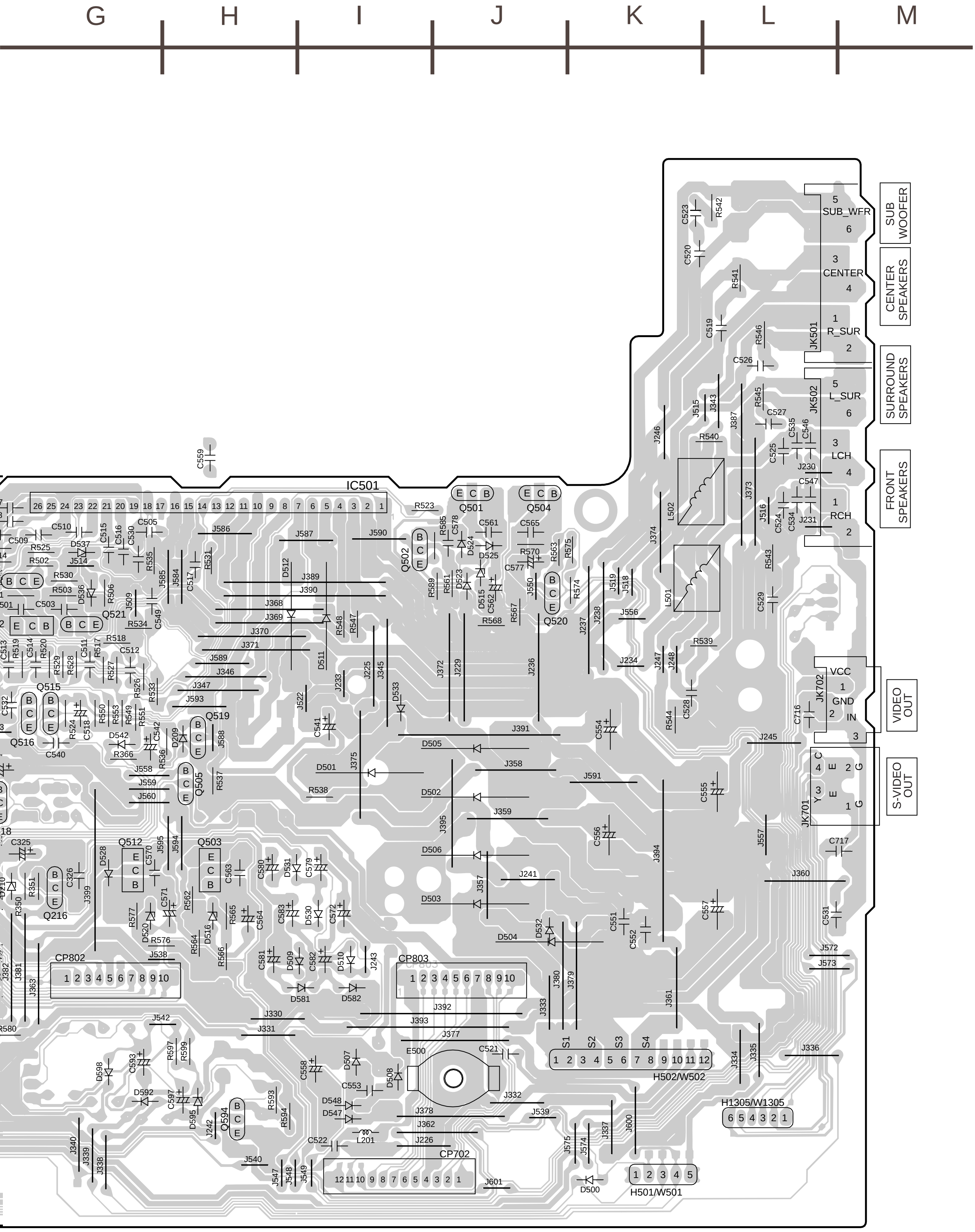
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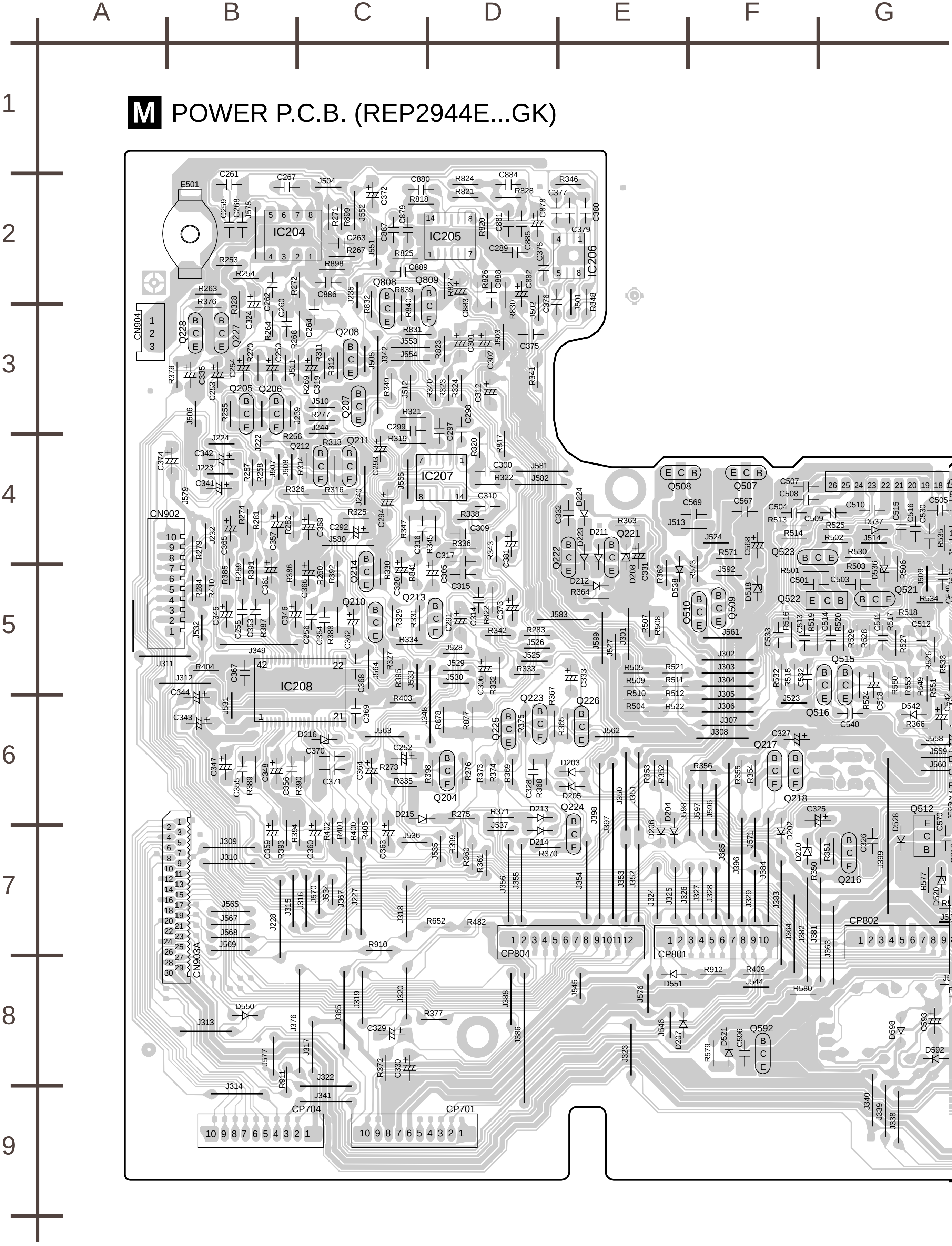
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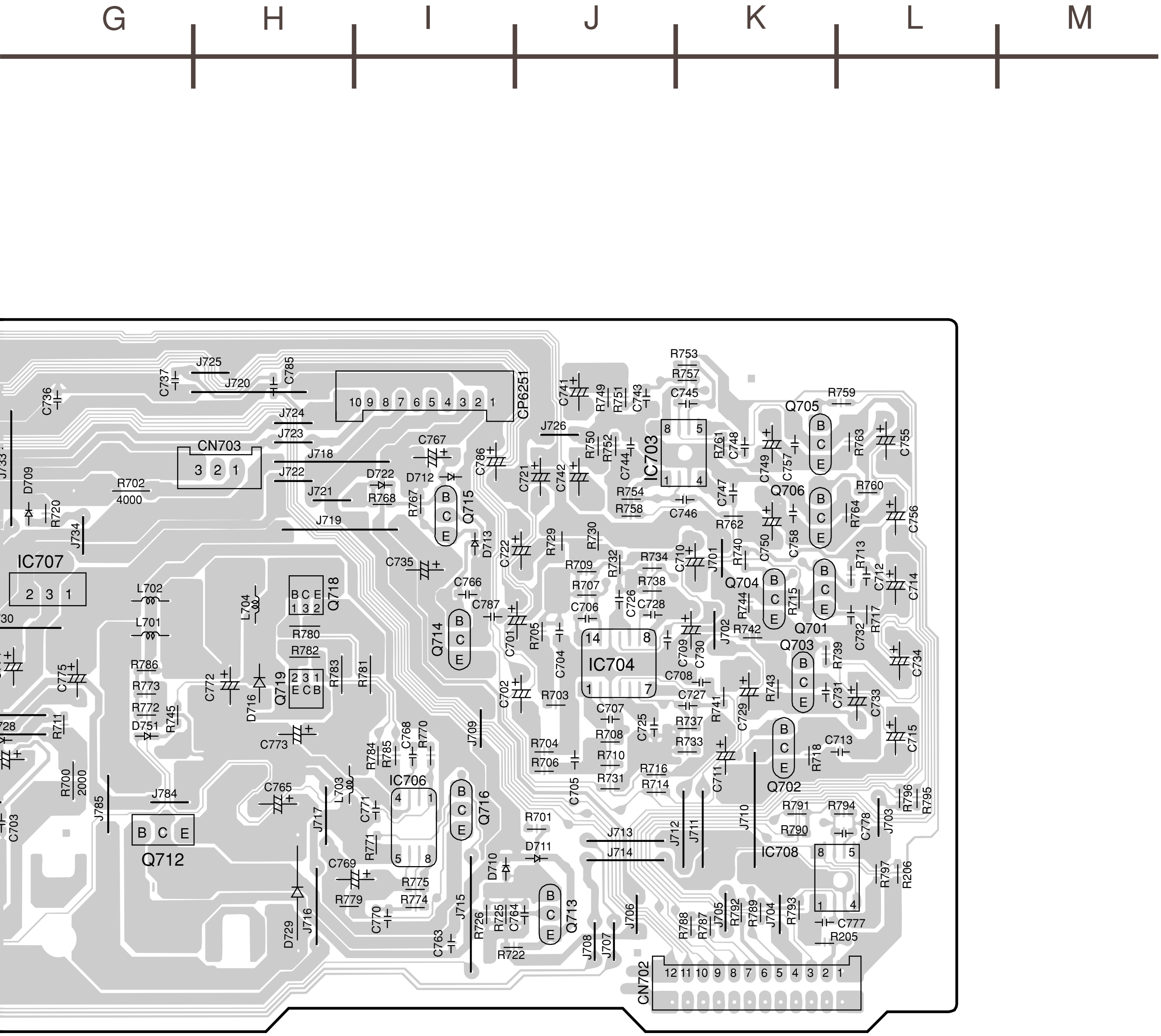

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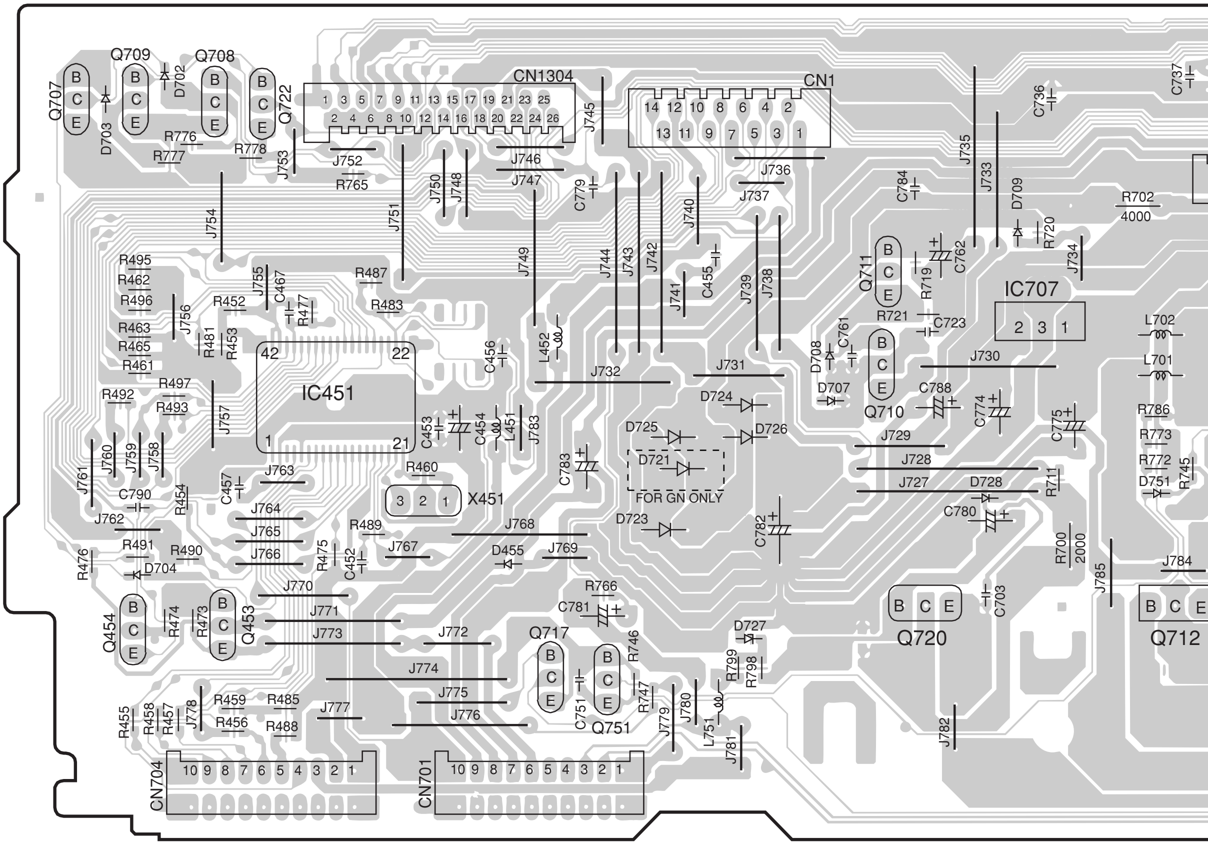
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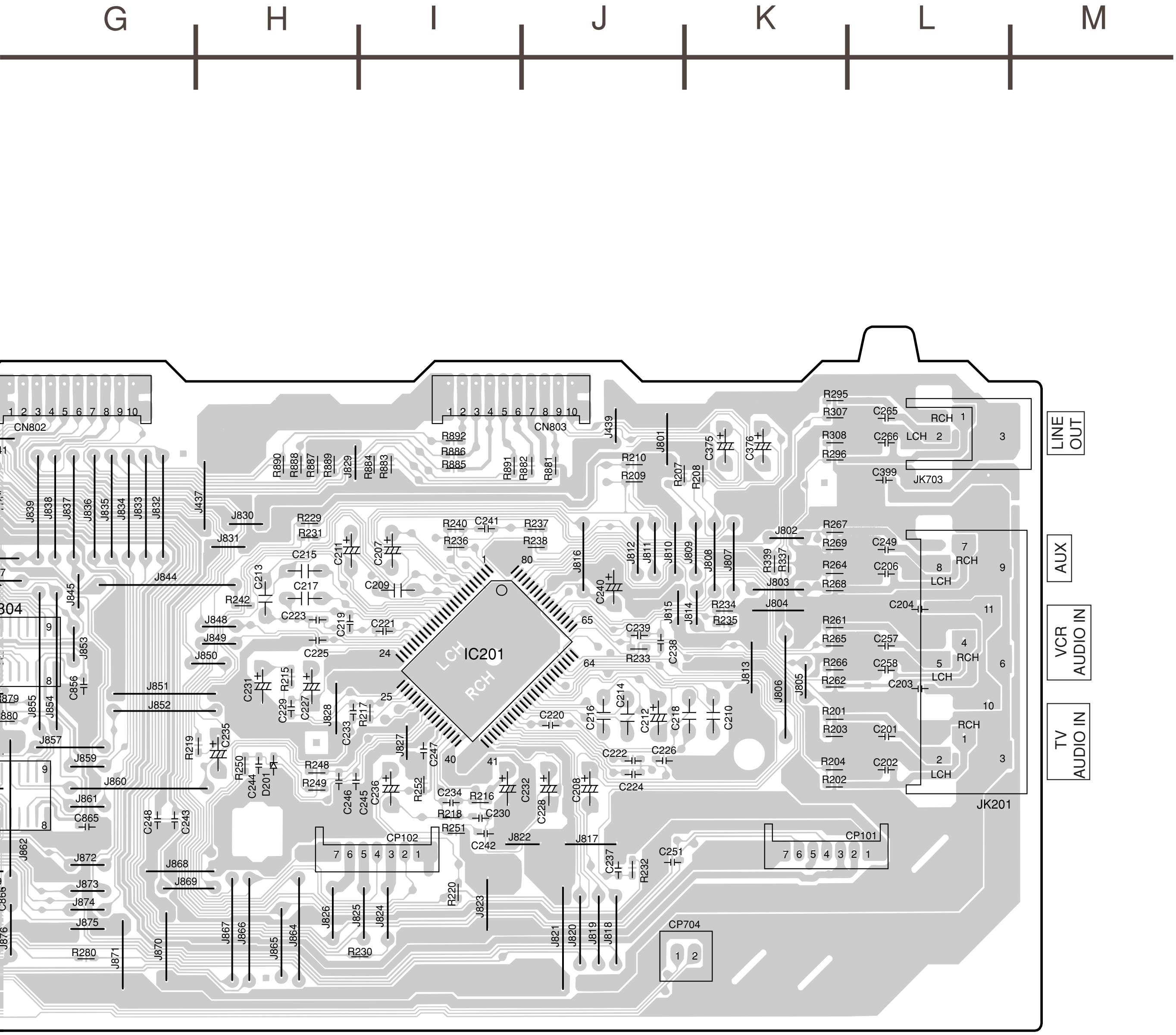
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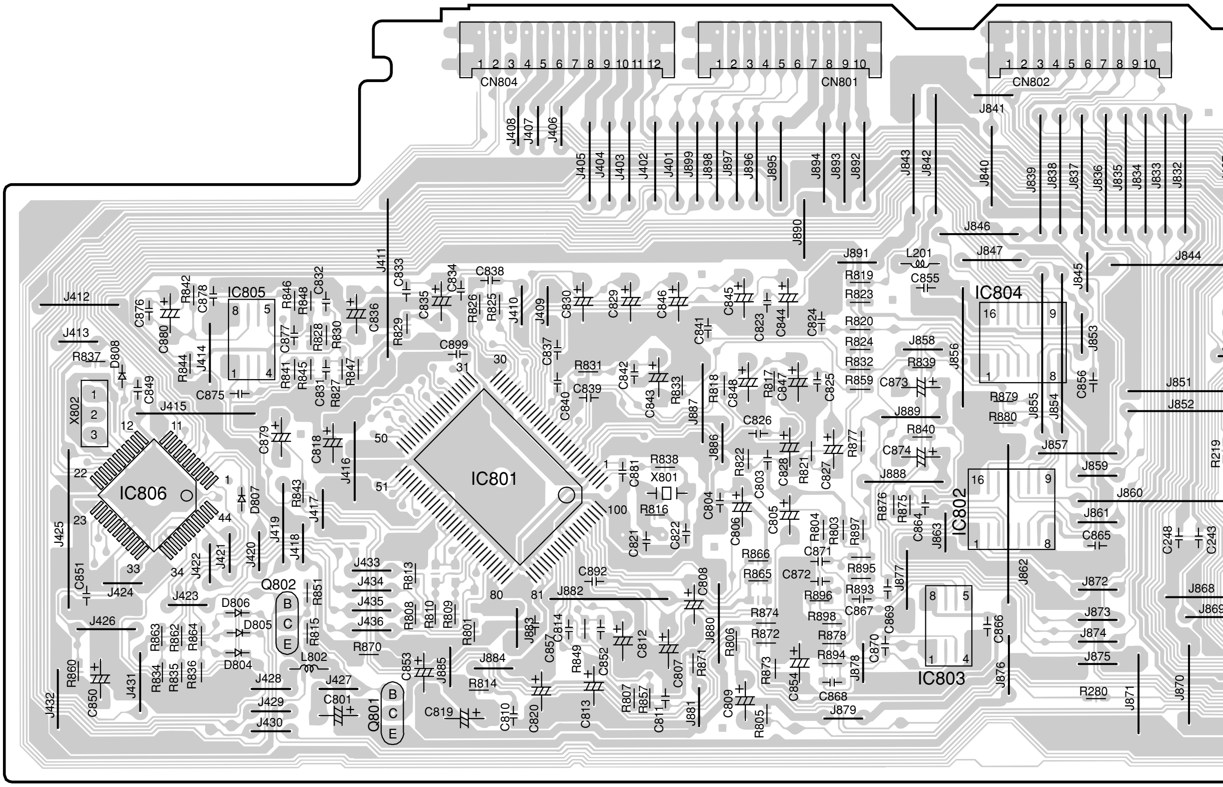
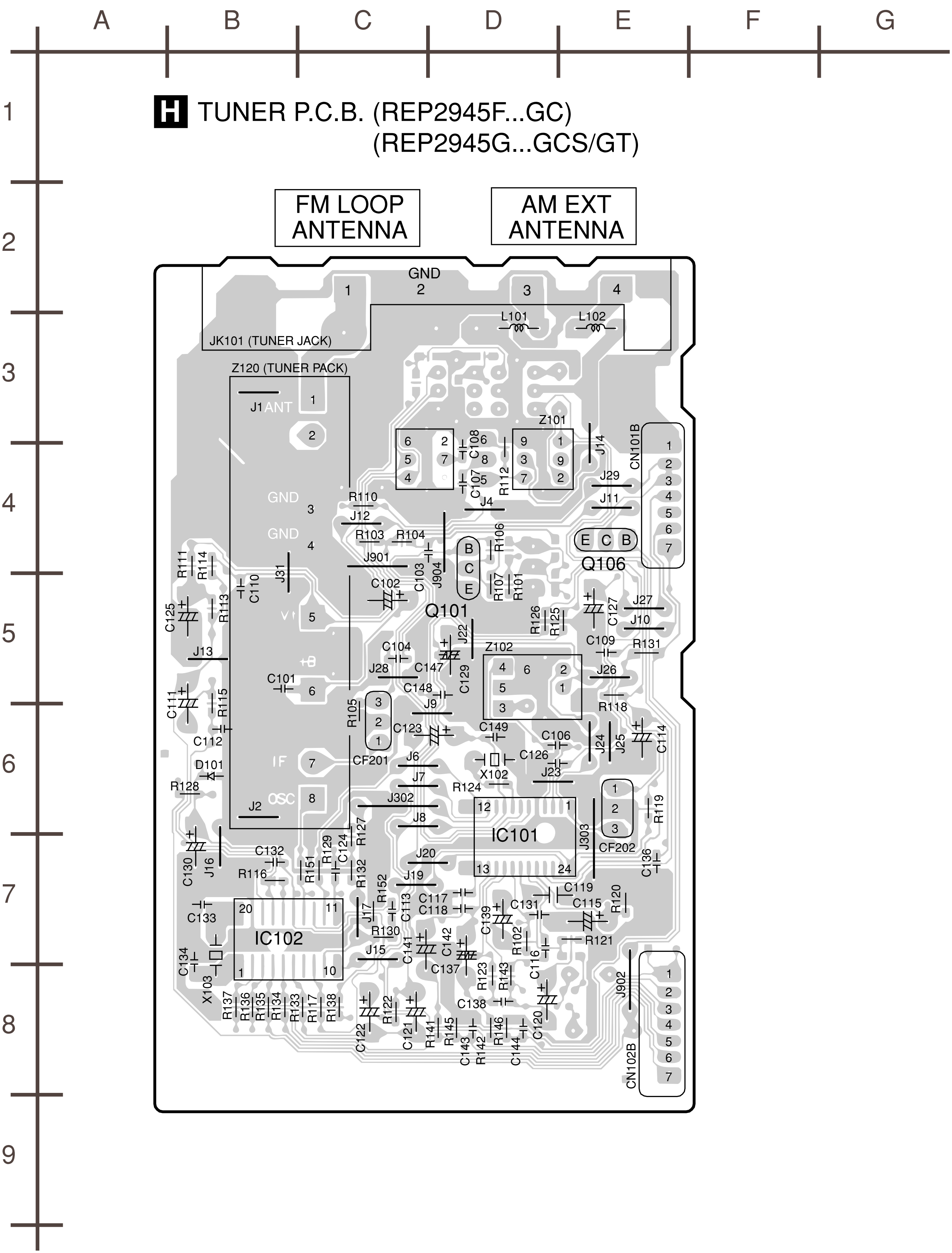
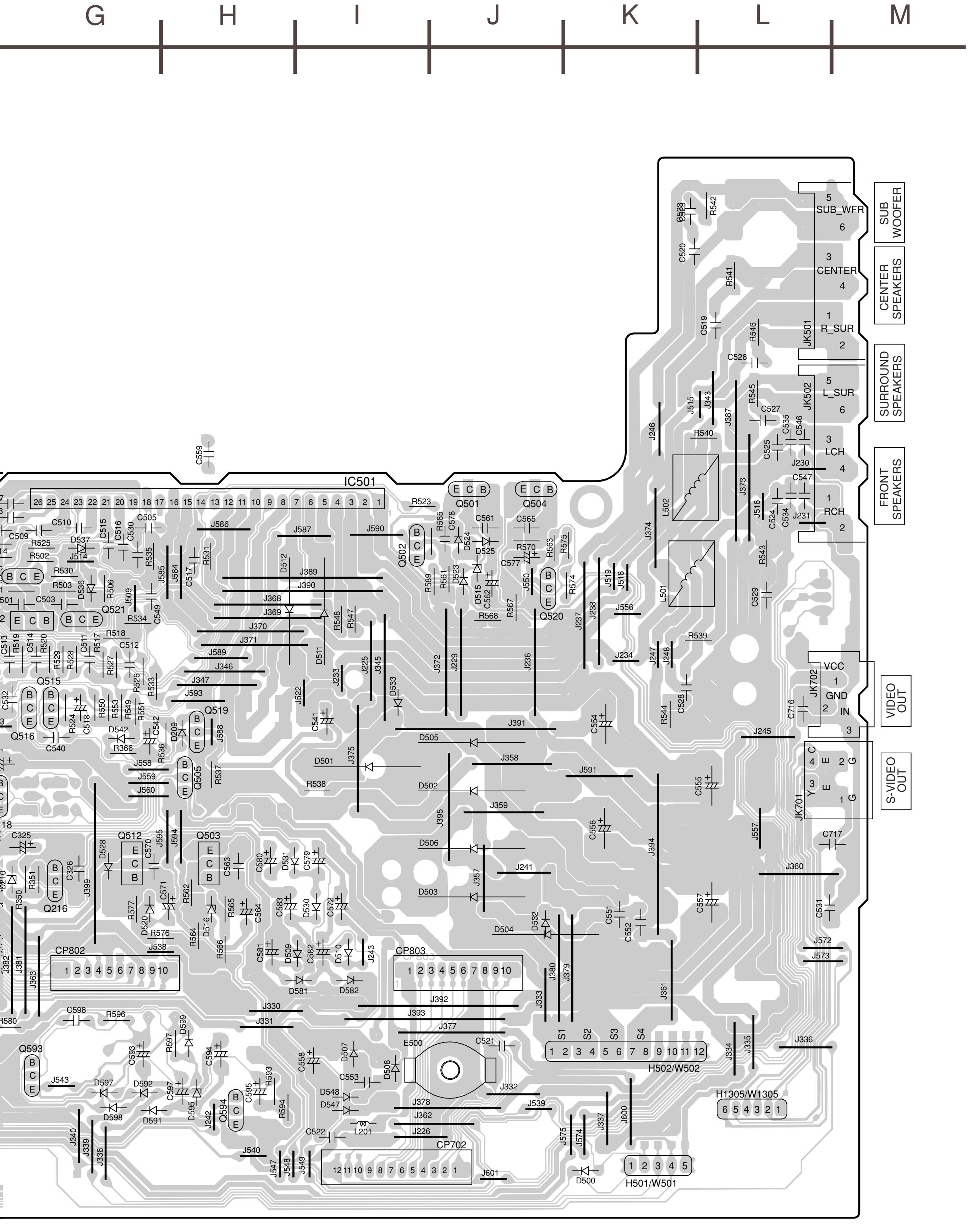
J875
R280
J871
J870
J867
J866
J865
J864
J826
J825
J824
R230
CP102
7 6 5 4 3 2 1
R220
J823
J822
J817
J821
J820
J819
J818
C237
R232
C251
CP101
7 6 5 4 3 2 1
CP704
1 2
J876
C866
J879
J880
304

K DSP P.C.B. (REP2945F...GC)
(REP2945G...GCS/GT)
(REP2945H...GK)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
CN804
CN801
CN802
IC801
IC802
IC803
IC804
IC805
IC806
Q801
Q802
X801
X802
L201
L802
D804
D805
D806
D807
D808

H TUNER P.C.B. (REP2945F...GC) (REP2945G...GCS/GT)

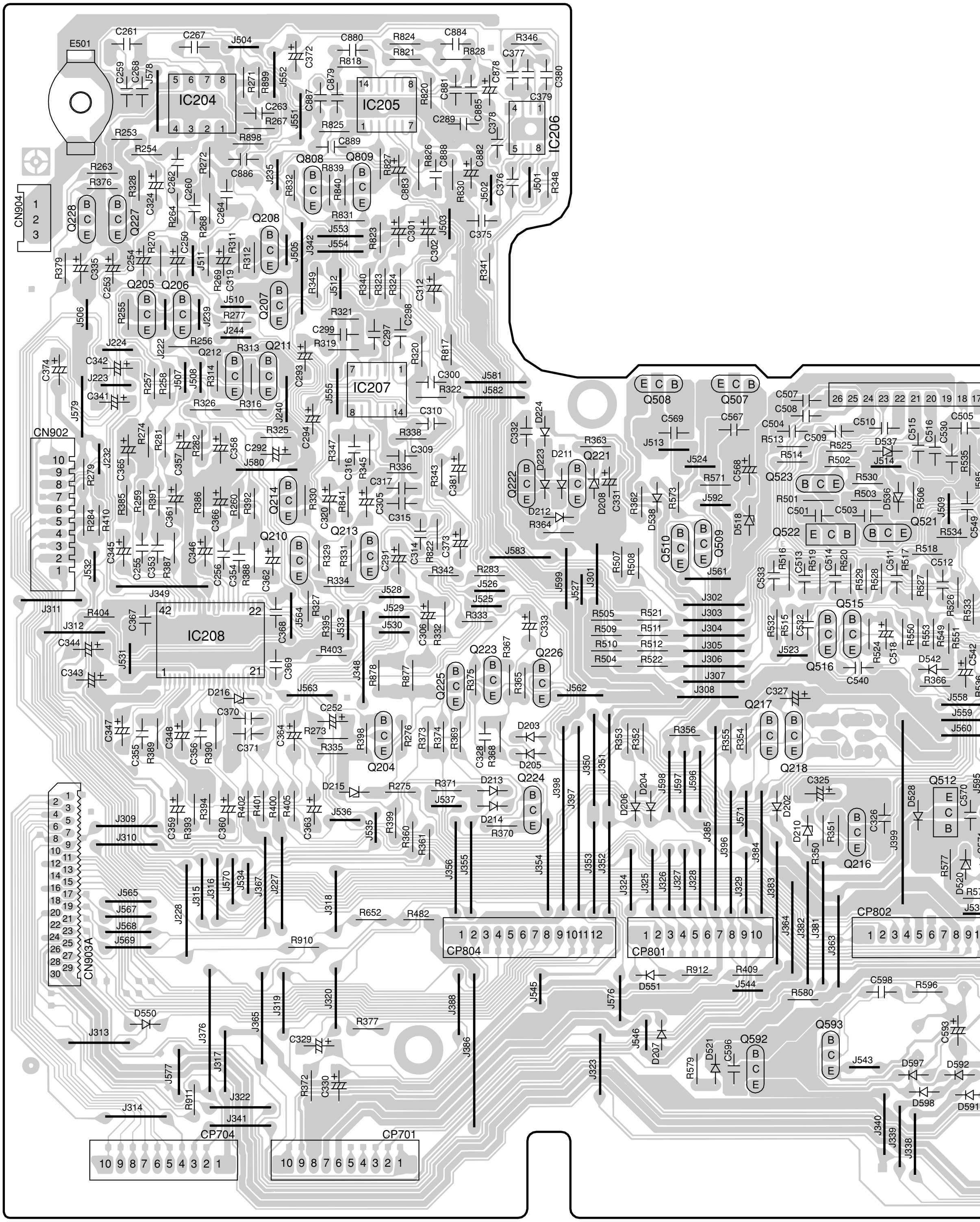

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
FM LOOP ANTENNA
AM EXT ANTENNA
GND
1
2
3
4
JK101 (TUNER JACK)
Z120 (TUNER PACK)
L101
L102
Z101
CN101B
Q106
Q101
Z102
IC101
IC102
CF201
CF202
X102
X103
D101
CN102B
J901
J902
J303
J302
ANT
GND
IF
OSC


G
H
I
J
K
L
M
SUB WOOFER
5
SUB_WFR
6
CENTER SPEAKERS
3
CENTER
4
1
R_SUR
2
JK501
SURROUND SPEAKERS
5
L_SUR
6
JK502
FRONT SPEAKERS
3
LCH
4
1
RCH
2
VCC
1
GND
2
IN
3
JK702
VIDEO OUT
S-VIDEO OUT
C
4
E
2
G
Y
3
E
1
G
JK701
IC501
26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
Q501
E C B
Q504
E C B
Q502
B C E
Q520
B C E
Q521
Q515
Q516
Q519
Q505
Q512
Q503
Q216
Q593
Q594
L501
L502
CP802
1 2 3 4 5 6 7 8 9 10
CP803
1 2 3 4 5 6 7 8 9 10
CP702
12 11 10 9 8 7 6 5 4 3 2 1
E500
H502/W502
S1 S2 S3 S4
1 2 3 4 5 6 7 8 9 10 11 12
H1305/W1305
6 5 4 3 2 1
H501/W501
1 2 3 4 5
D500
D501
D502
D503
D504
D505
D506
L201
C520
C523
C519
C526
C527
C525
C535
C546
C547
C524
C534
C529
C528
C716
C717
C531
C554
C555
C556
C557
C551
C552
C521
C553
C558
C522
C559
R542
R541
R546
R545
R540
R543
R539
R544
R523
R538
J230
J231
J245
J246
J336
J360
J391
J392
J393
J377
J378
J362
J226
J601
J539
J540

A B C D E F G

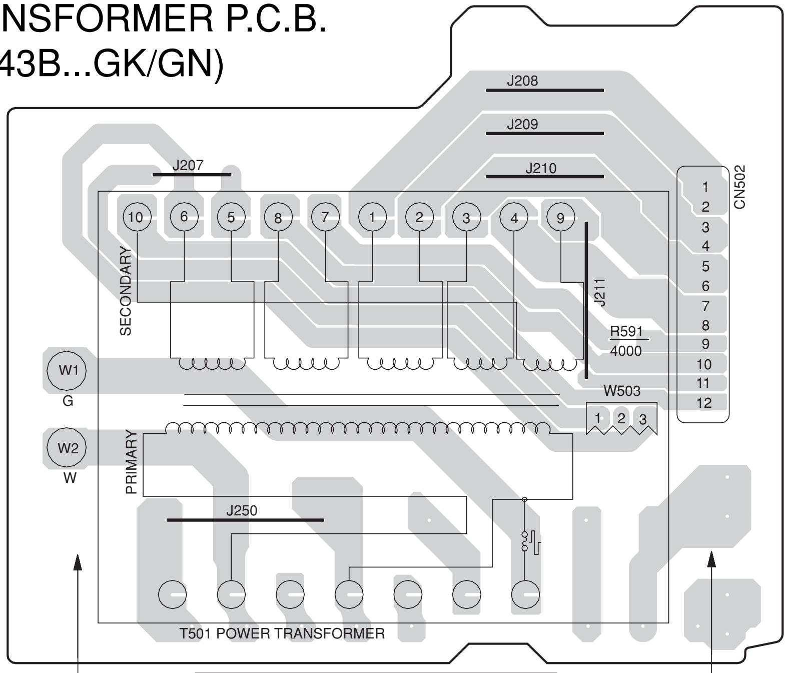
1 2 3 4 5 6 7 8 9

M POWER P.C.B. (REP2944D...GC/GCS/GT)


E501
IC204
IC205
IC206
IC207
IC208
CN904
CN902
CN903A
CP704
CP701
CP804
CP801
CP802
Q228
Q227
Q205
Q206
Q207
Q208
Q211
Q212
Q808
Q809
Q210
Q213
Q214
Q204
Q223
Q225
Q226
Q224
Q221
Q222
Q508
Q507
Q510
Q509
Q523
Q522
Q521
Q515
Q516
Q217
Q218
Q512
Q216
Q593
Q592
D216
D215
D213
D214
D203
D205
D224
D223
D211
D212
D208
D538
D518
D206
D204
D202
D210
D528
D520
D537
D536
D542
D514
D550
D551
D207
D521
D597
D592
D598
D591
10 9 8 7 6 5 4 3 2 1
1 2 3 4 5 6 7 8 9 10 11 12
1 2 3 4 5 6 7 8 9 10

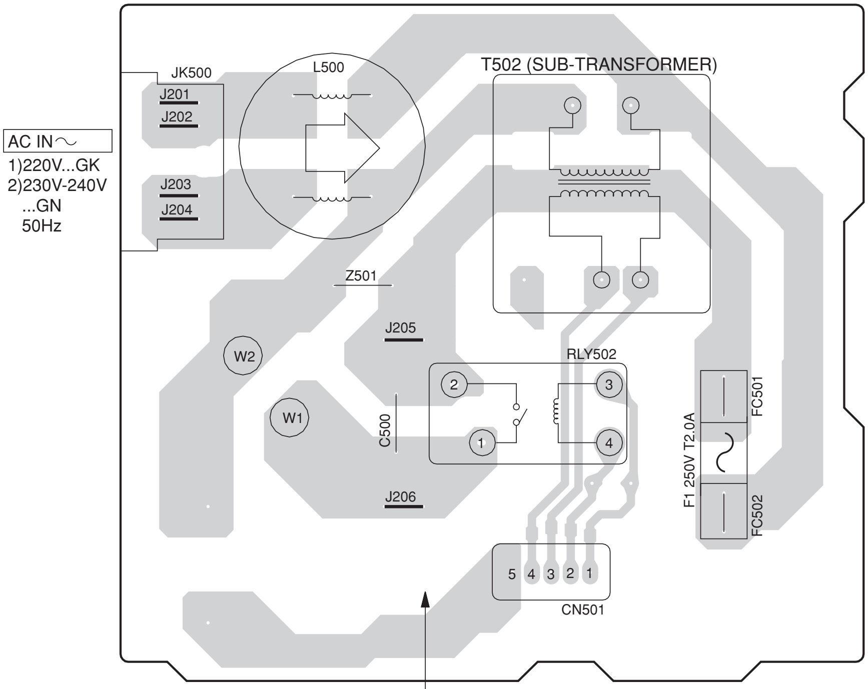
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9

N AC TRANSFORMER P.C.B. (REP2943B...GK/GN)

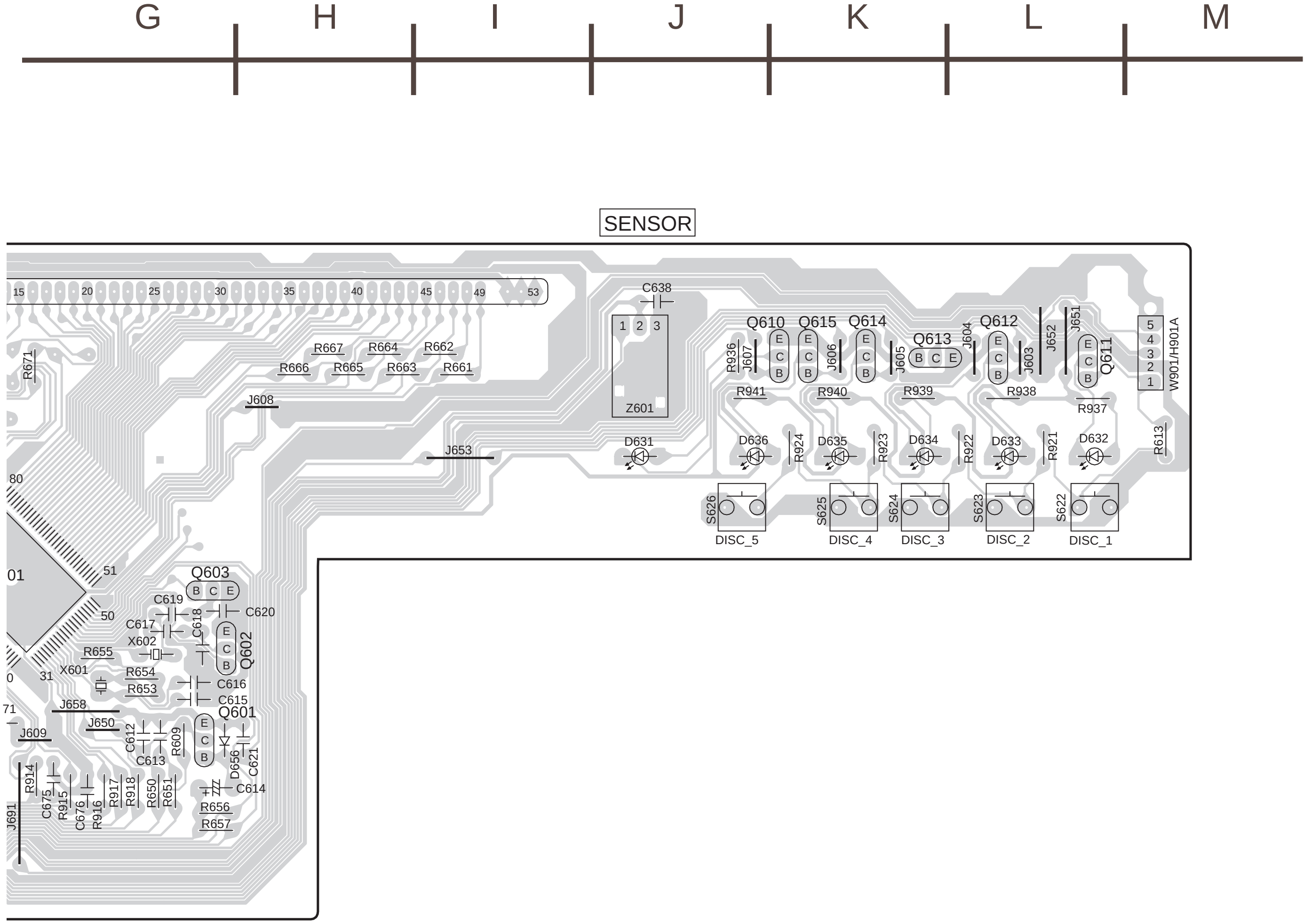

J208
J209
J210
J207
CN502
1
2
3
4
5
6
7
8
9
10
11
12
10
6
5
8
7
1
2
3
4
9
SECONDARY
J211
R591
4000
W1
G
W503
1 2 3
W2
W
PRIMARY
J250
T501 POWER TRANSFORMER

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B

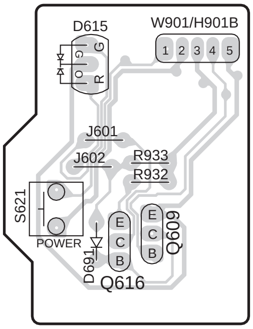
O AC INLET P.C.B. (REP2943B...GK/GN)


JK500
J201
J202
J203
J204
L500
T502 (SUB-TRANSFORMER)
AC IN~
1)220V...GK
2)230V-240V
...GN
50Hz
Z501
J205
W2
RLY502
2
3
1
4
W1
C500
FC501
F1 250V T2.0A
FC502
J206
5 4 3 2 1
CN501

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE. PLEASE DO NOT
TOUCH THIS P.C.B


G
H
I
J
K
L
M
SENSOR
15
20
25
30
35
40
45
49
53
C638
1 2 3
Z601
Q610
Q615
Q614
Q613
Q612
Q611
E C B
B C E
R936
J607
J606
J605
J604
J603
J652
J651
W901/H901A
5 4 3 2 1
R941
R940
R939
R938
R937
R613
D631
D636
D635
D634
D633
D632
R924
R923
R922
R921
S626
S625
S624
S623
S622
DISC_5
DISC_4
DISC_3
DISC_2
DISC_1
R671
R667
R664
R662
R666
R665
R663
R661
J608
J653
80
01
51
50
31
0
71
Q603
C619
C620
C617
C618
Q602
X602
R655
X601
R654
R653
C616
C615
J658
Q601
J650
J609
C612
C613
R609
D656
C621
C614
R914
C675
R915
C676
R916
R917
R918
R650
R651
R656
R657
J691

I POWER SWITCH P.C.B (REP2946C...GN)


D615
G O R
W901/H901B
1 2 3 4 5
J601
J602
R933
R932
S621
POWER
D691
Q616
E C B
Q609

A B C D E F G

1

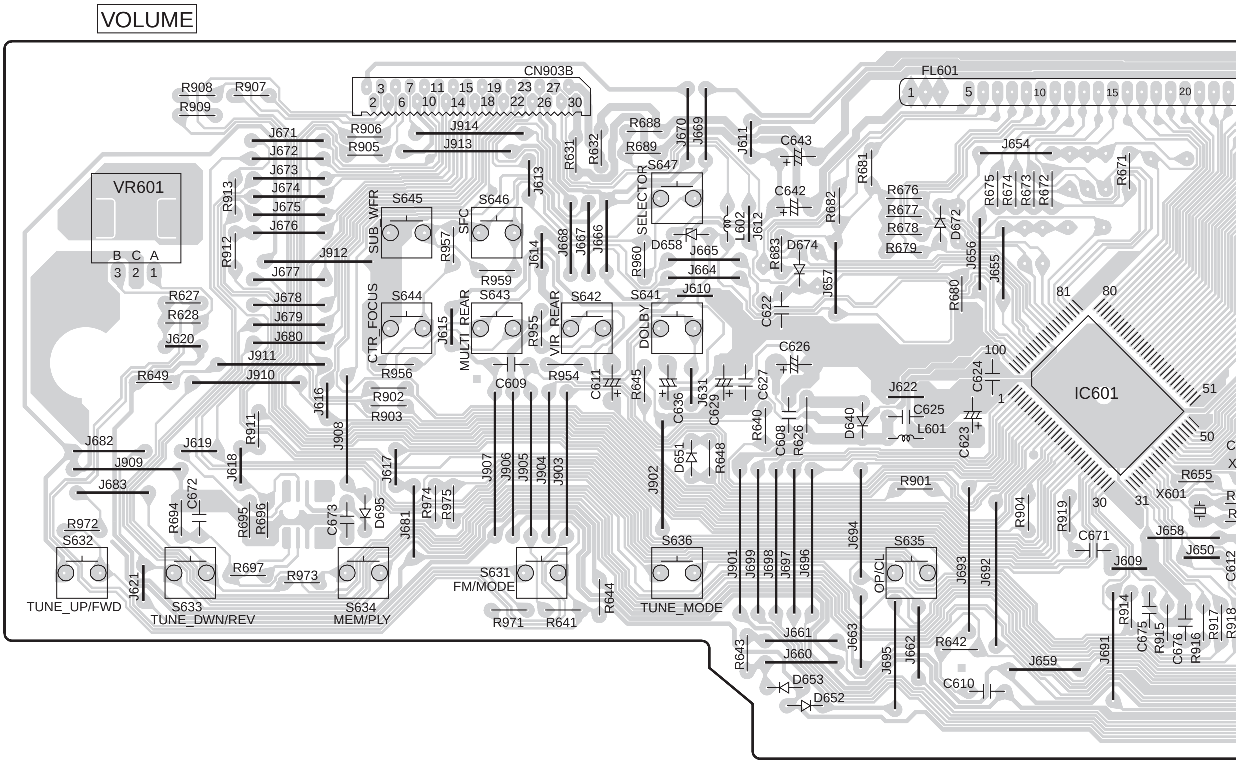
J PANEL P.C.B (REP2946C...GN)

2

3

4

5

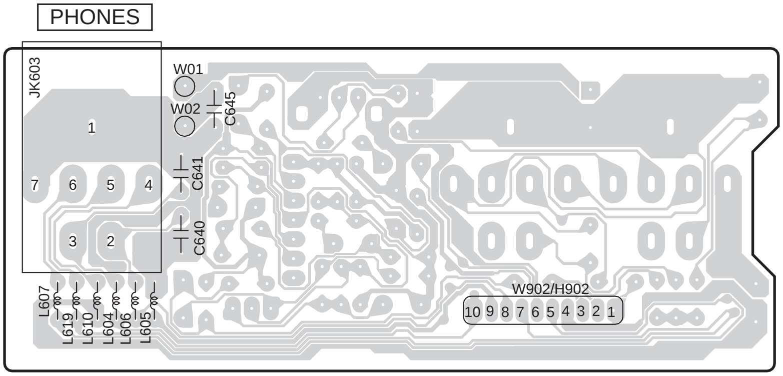

VOLUME
VR601
B C A
3 2 1
CN903B
FL601
IC601
S645
SUB_WFR
S646
SFC
S647
SELECTOR
S644
CTR_FOCUS
S643
MULTI_REAR
S642
VIR_REAR
S641
DOLBY
S632
TUNE_UP/FWD
S633
TUNE_DWN/REV
S634
MEM/PLY
S631
FM/MODE
S636
TUNE_MODE
S635
OP/CL
X601
J914
J913
J912
J911
J910
J909
J908
J907
J906
J905
J904
J903
J902
J901
R908
R907
R909
R906
R905
R627
R628
R649
R972
R697
R973
R971
R641
R901
R904
R919
R655
C643
C642
C626
C624
C623
C625
C609
C611
C671
C610
C612
D658
D674
D672
D640
D651
D653
D652
D695
L601
L602
100
81
80
51
50
31
30
1

6

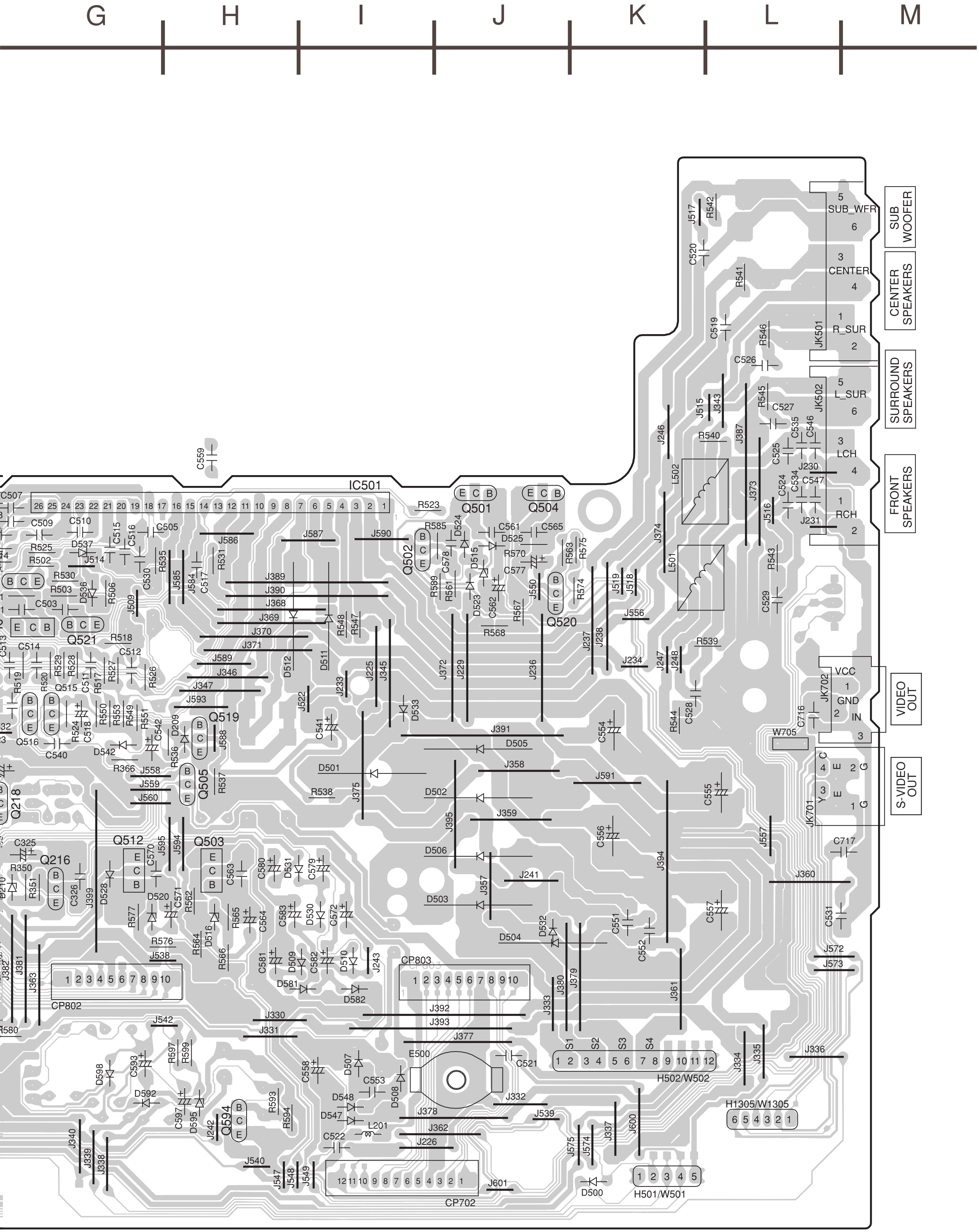
L MIC P.C.B (REP2946C...GN)

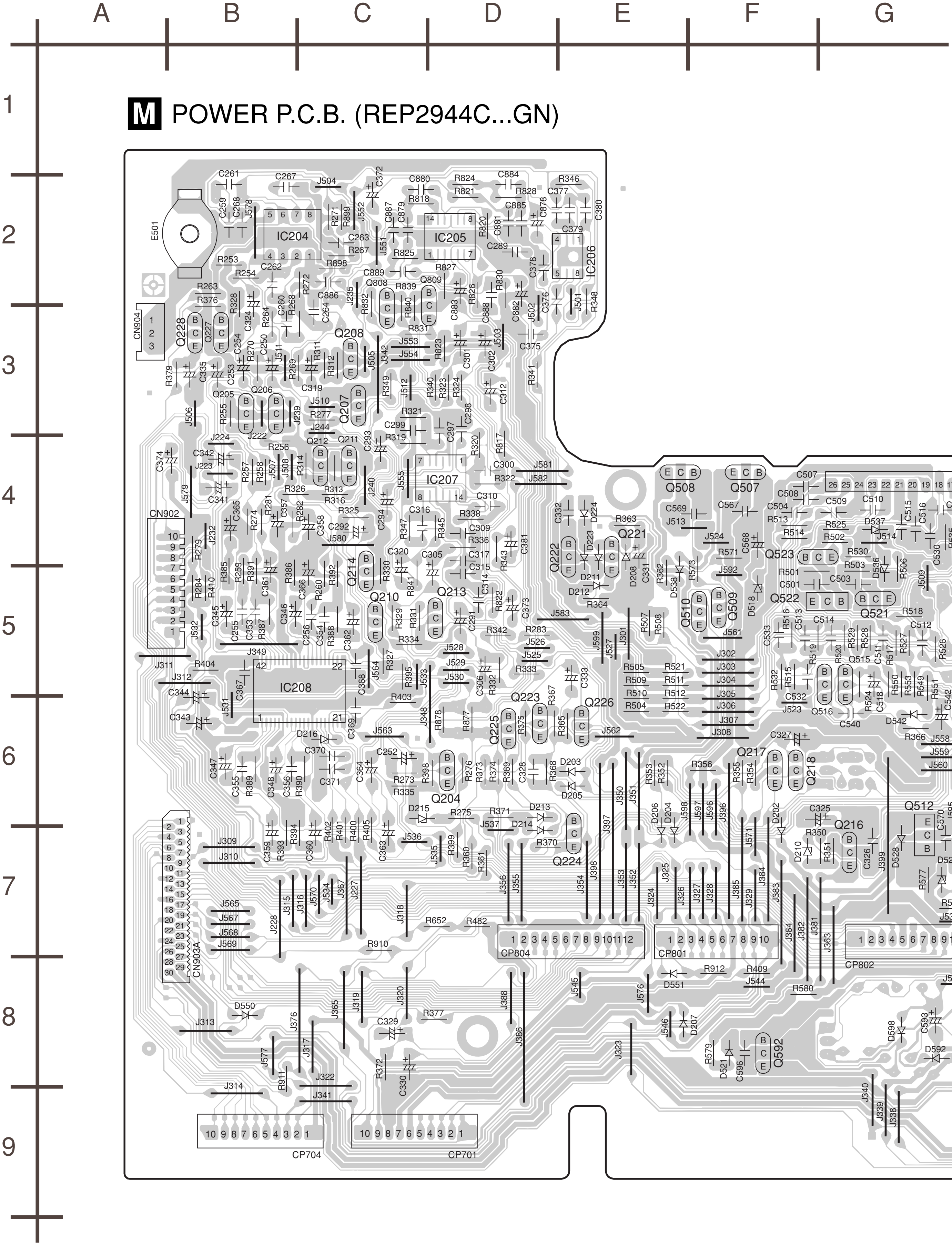
7

8

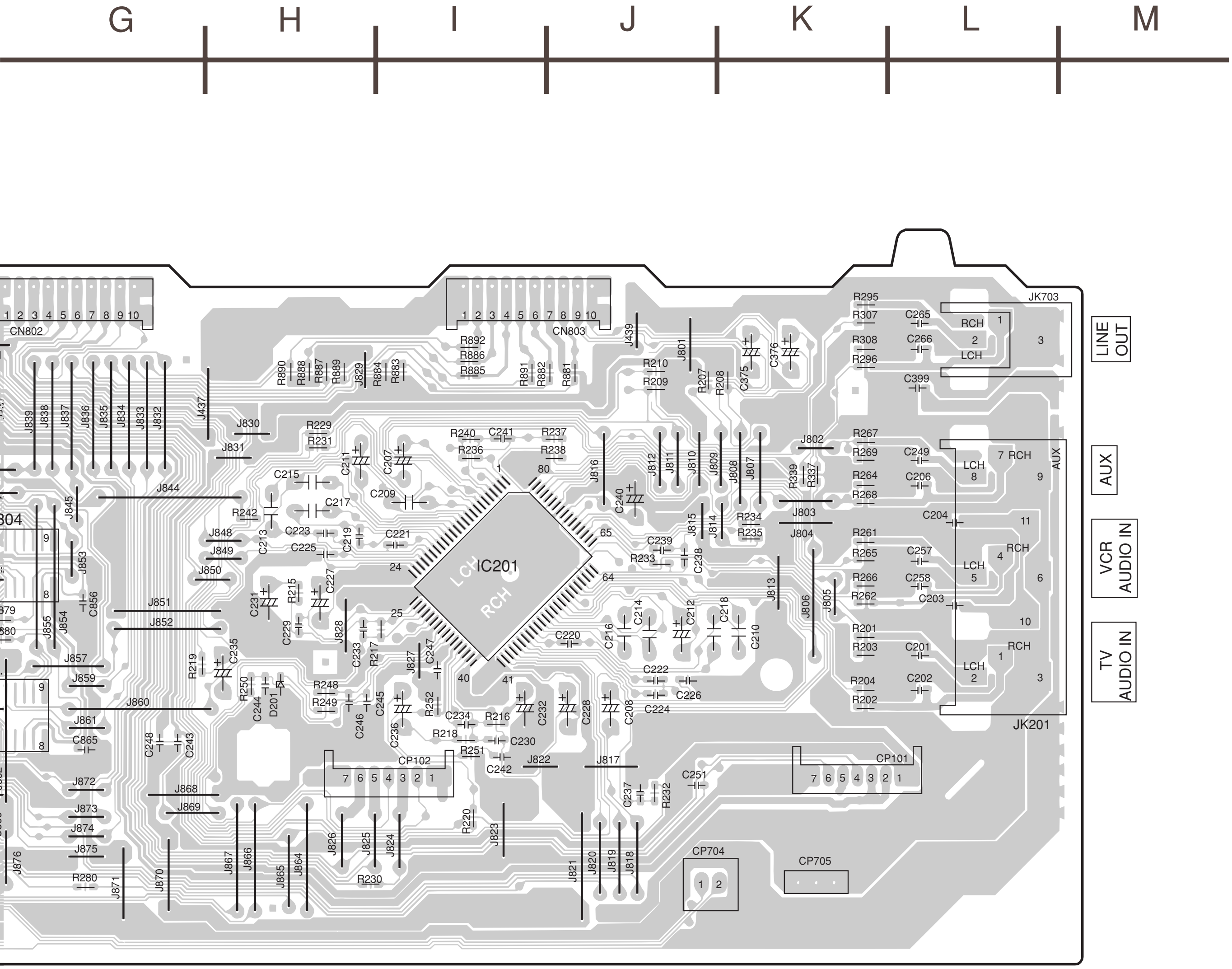

PHONES
JK603
1
7
6
5
4
3
2
W01
W02
C645
C641
C640
L607
L619
L610
L604
L606
L605
W902/H902
10 9 8 7 6 5 4 3 2 1

9


G
H
I
J
K
L
M
SUB WOOFER
5
SUB_WFR
6
CENTER SPEAKERS
3
CENTER
4
1
R_SUR
2
JK501
SURROUND SPEAKERS
5
L_SUR
6
JK502
FRONT SPEAKERS
3
LCH
4
1
RCH
2
VIDEO OUT
VCC
1
GND
2
IN
3
JK702
S-VIDEO OUT
C
4
Y
3
E
2
G
1
JK701
W705
C716
C717
J360
C531
J572
J573
J336
H1305/W1305
6 5 4 3 2 1
IC501
26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
Q501
Q504
E C B
Q502
Q520
Q521
Q515
Q516
Q519
Q505
Q218
Q216
Q512
Q503
Q594
L501
L502
J517
R542
C520
R541
C519
R546
C526
J515
J343
R545
C527
C535
C546
R540
J387
J246
C525
J230
C524
C534
C547
J373
J516
J231
J374
R543
C529
J556
J519
J518
J237
J238
J234
J247
J248
R539
C528
R544
C554
C555
C556
C557
C551
C552
J591
J394
J557
J361
J379
J380
J333
D532
D504
S1 S2 S3 S4
1 2 3 4 5 6 7 8 9 10 11 12
H502/W502
J334
J335
J600
J337
J574
J575
D500
1 2 3 4 5
H501/W501
CP702
12 11 10 9 8 7 6 5 4 3 2 1
J601
CP803
1 2 3 4 5 6 7 8 9 10
CP802
1 2 3 4 5 6 7 8 9 10
J392
J393
J377
E500
C521
J332
J539
J378
J362
J226
L201
C522
D547
D548
C553
D508
D507
C558
J540
J547
J548
J549
J330
J331
J542
J538
R576
C559
C507
C509
C510
C505
C515
C516
D537
J514
R525
R502
R530
R503
D536
R506
C530
R535
J585
J584
C517
R531
J586
J587
J590
J589
J346
J347
J593
J389
J390
J368
J369
J370
J371
R548
R547
D512
D511
J522
J233
J225
J345
D533
C541
J372
J229
J236
J391
D505
D501
J358
R538
J375
D502
J359
J395
D506
J241
J357
D503
R523
R585
D524
C561
C565
D525
R570
C577
R563
R575
C578
D515
R589
R561
D523
C562
R567
R568
J550
R574
J509
C503
R518
C512
C514
R529
R528
R520
R519
C511
R517
R527
R526
R550
R553
R549
R551
C542
D209
R524
C518
C540
D542
R366
J558
J559
J560
R536
J588
R537
C325
R350
R351
C326
J399
D528
C570
J595
J594
D520
C571
R562
C563
C580
D531
C579
R577
R564
D516
R565
C564
C583
D530
C572
R566
C581
D509
C582
D510
J243
D581
D582
J381
J363
J382
R580
J340
J339
J338
D598
C593
R597
R599
D592
C597
D595
J242
R593
R594
C513


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9

M POWER P.C.B. (REP2944C...GN)


G
H
I
J
K
L
M
CN802
CN803
IC201
LCH
RCH
JK703
JK201
LINE OUT
AUX
VCR AUDIO IN
TV AUDIO IN
CP102
CP101
CP704
CP705
D201
R295
R307
R308
R296
C265
C266
C399
R267
R269
R264
R268
C249
C206
C204
R261
R265
R266
R262
C257
C258
C203
R201
R203
R204
R202
C201
C202
R210
R209
R207
R208
C375
C376
R892
R886
R885
R890
R888
R887
R889
R884
R883
R891
R882
R881
R229
R231
R240
R236
C241
R237
R238
C215
C211
C207
C217
C209
R242
C213
C223
C225
C219
C221
R215
C227
C231
C229
C233
R217
C247
C220
C216
C214
C212
C218
C210
C239
R233
C238
C240
R339
R337
R234
R235
C235
R219
R250
C244
R248
R249
C246
C245
C236
R252
C234
R216
C232
C228
C208
C222
C226
C224
R218
C230
R251
C242
C248
C243
C865
C856
C237
R232
C251
R220
R230
R280
J439
J801
J437
J830
J831
J844
J845
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J850
J851
J852
J853
J854
J855
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J875
J876
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J865
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J824
J825
J826
J823
J822
J817
J818
J819
J820
J821
J827
J828
J802
J803
J804
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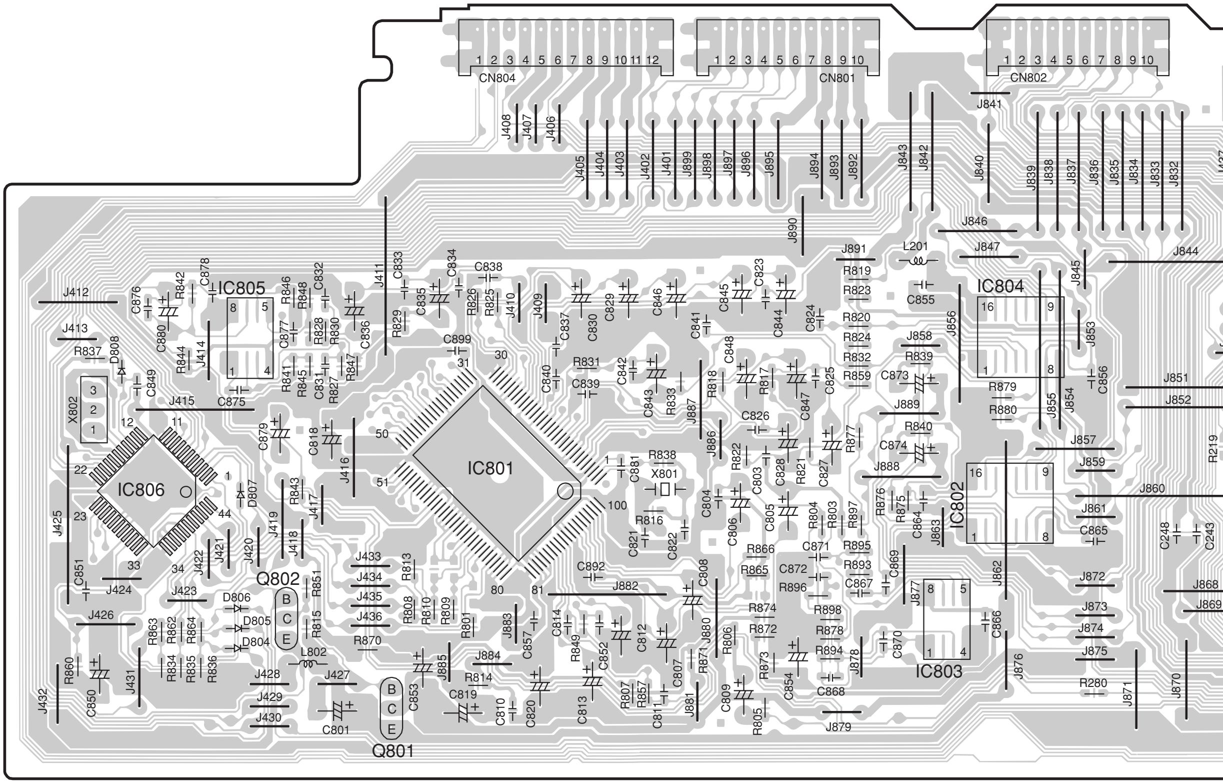
J808
J809
J810
J811
J812
J813
J814
J815
J816
J829
J832
J833
J834
J835
J836
J837
J838
J839
1
80
65
64
24
25
40
41

K DSP P.C.B. (REP2945D...GN)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
CN804
CN801
CN802
IC801
IC802
IC803
IC804
IC805
IC806
Q801
Q802
X801
X802
L201
L802
D804
D805
D806
D807
D808
J412
J413
J415
J425
J426
J432
J841
J844
J846
J847
J851
J852
J857
J860
J879
J882
J888
J889
C801
C875
C855
R837
R879
R880

SCHEMATIC DIAGRAM - 52

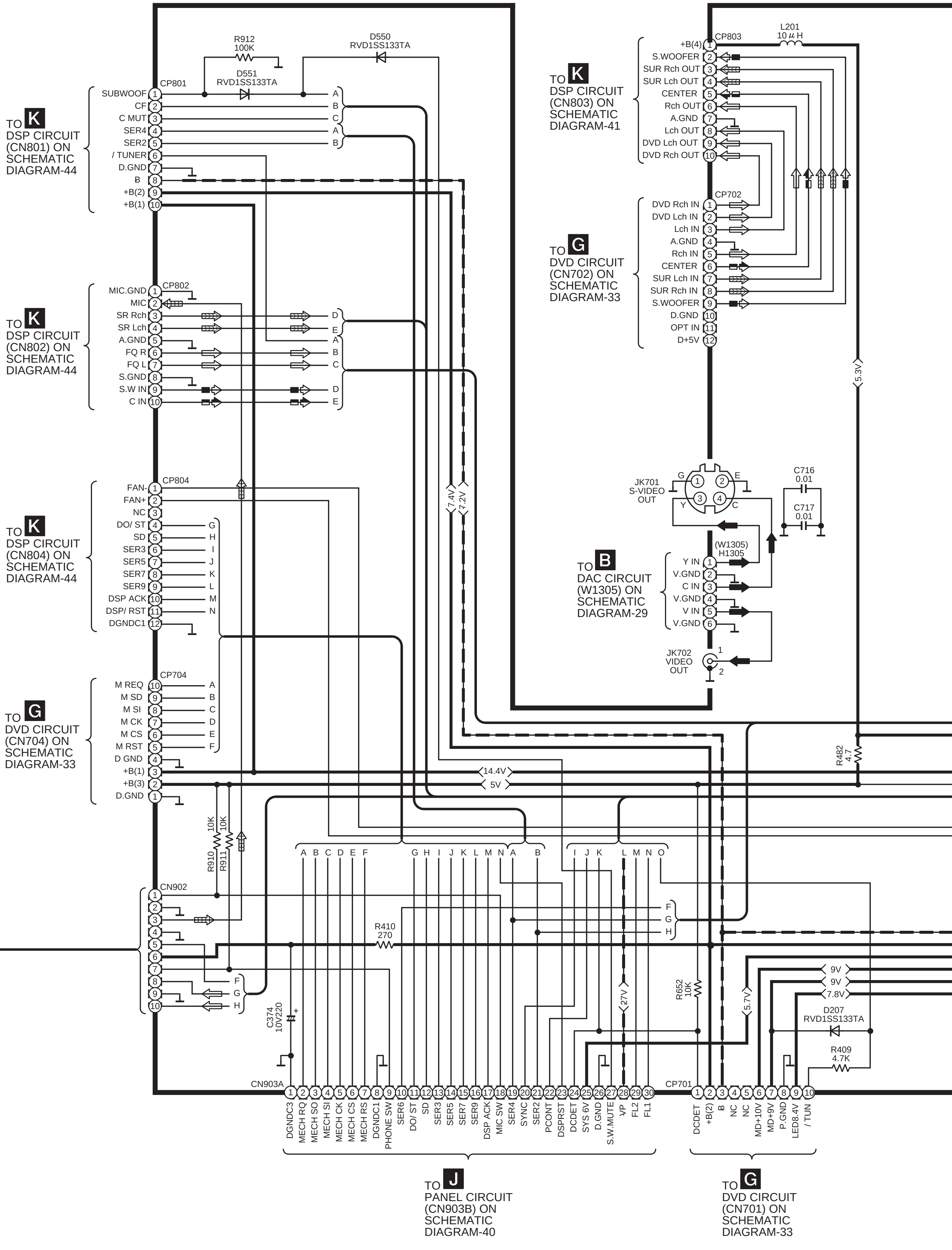
For GK only

For GN only

M POWER CIRCUIT
(FOR GN/GK ONLY)

: +B signal line : Video signal line : Surround speaker signal line : Center speaker signal line

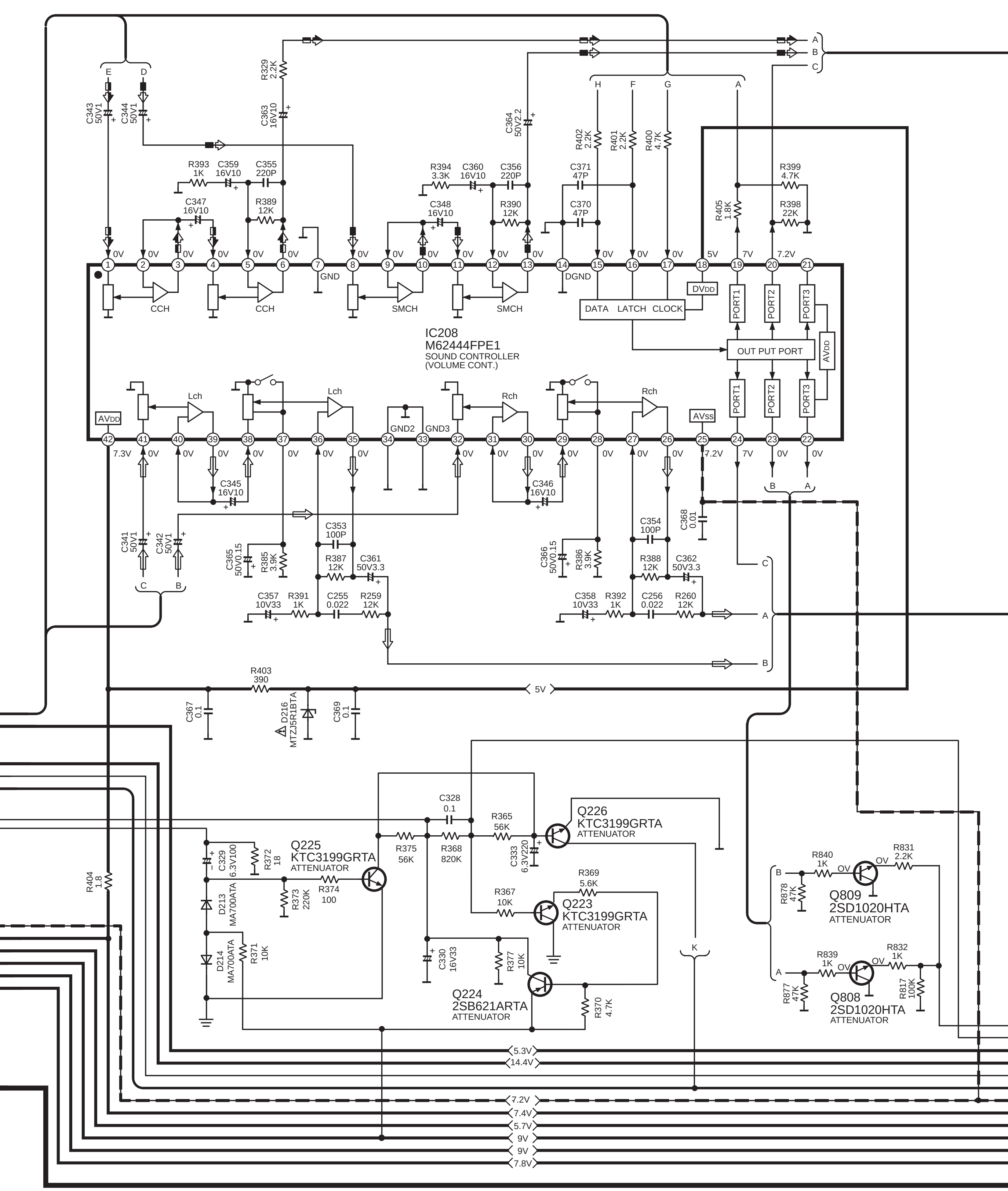
: -B signal line : Audio signal line : Mic signal line : Subwoofer speaker signal line



R912
100K
D550
RVD1SS133TA
D551
RVD1SS133TA
CP801
SUBWOOF 1
CF 2
C MUT 3
SER4 4
SER2 5
/ TUNER 6
D.GND 7
B 8
+B(2) 9
+B(1) 10
TO K DSP CIRCUIT (CN801) ON SCHEMATIC DIAGRAM-44
CP802
MIC.GND 1
MIC 2
SR Rch 3
SR Lch 4
A.GND 5
FQ R 6
FQ L 7
S.GND 8
S.W IN 9
C IN 10
TO K DSP CIRCUIT (CN802) ON SCHEMATIC DIAGRAM-44
CP804
FAN- 1
FAN+ 2
NC 3
DO/ ST 4
SD 5
SER3 6
SER5 7
SER7 8
SER9 9
DSP ACK 10
DSP/ RST 11
DGNDC1 12
TO K DSP CIRCUIT (CN804) ON SCHEMATIC DIAGRAM-44
CP704
M REQ 10
M SD 9
M SI 8
M CK 7
M CS 6
M RST 5
D GND 4
+B(1) 3
+B(3) 2
D.GND 1
TO G DVD CIRCUIT (CN704) ON SCHEMATIC DIAGRAM-33
7.4V
7.2V
14.4V
5V
R910 10K
R911 10K
CN902
R410
270
C374
10V220
27V
R652
10K
5.7V
9V
9V
7.8V
D207
RVD1SS133TA
R409
4.7K
CN903A
DGNDC3 1
MECH RQ 2
MECH SO 3
MECH SI 4
MECH CK 5
MECH CS 6
MECH RS 7
DGNDC1 8
PHONE SW 9
SER6 10
DO/ ST 11
SD 12
SER3 13
SER5 14
SER7 15
SER9 16
DSP ACK 17
MIC SW 18
SER4 19
SYNC 20
SER2 21
PCONT 22
DSPRST 23
DCDET 24
SYS 6V 25
D.GND 26
S.W.MUTE 27
VP 28
FL2 29
FL1 30
TO J PANEL CIRCUIT (CN903B) ON SCHEMATIC DIAGRAM-40
CP701
DCDET 1
+B(2) 2
B 3
NC 4
NC 5
MD+10V 6
MD+9V 7
P.GND 8
LED8.4V 9
/ TUN 10
TO G DVD CIRCUIT (CN701) ON SCHEMATIC DIAGRAM-33
CP803
L201
10 μ H
+B(4) 1
S.WOOFER 2
SUR Rch OUT 3
SUR Lch OUT 4
CENTER 5
Rch OUT 6
A.GND 7
Lch OUT 8
DVD Lch OUT 9
DVD Rch OUT 10
TO K DSP CIRCUIT (CN803) ON SCHEMATIC DIAGRAM-41
CP702
DVD Rch IN 1
DVD Lch IN 2
Lch IN 3
A.GND 4
Rch IN 5
CENTER 6
SUR Lch IN 7
SUR Rch IN 8
S.WOOFER 9
D.GND 10
OPT IN 11
D+5V 12
TO G DVD CIRCUIT (CN702) ON SCHEMATIC DIAGRAM-33
5.3V
JK701
S-VIDEO
OUT
G E Y C
C716
0.01
C717
0.01
(W1305)
H1305
Y IN 1
V.GND 2
C IN 3
V.GND 4
V IN 5
V.GND 6
TO B DAC CIRCUIT (W1305) ON SCHEMATIC DIAGRAM-29
JK702
VIDEO
OUT
R482
4.7

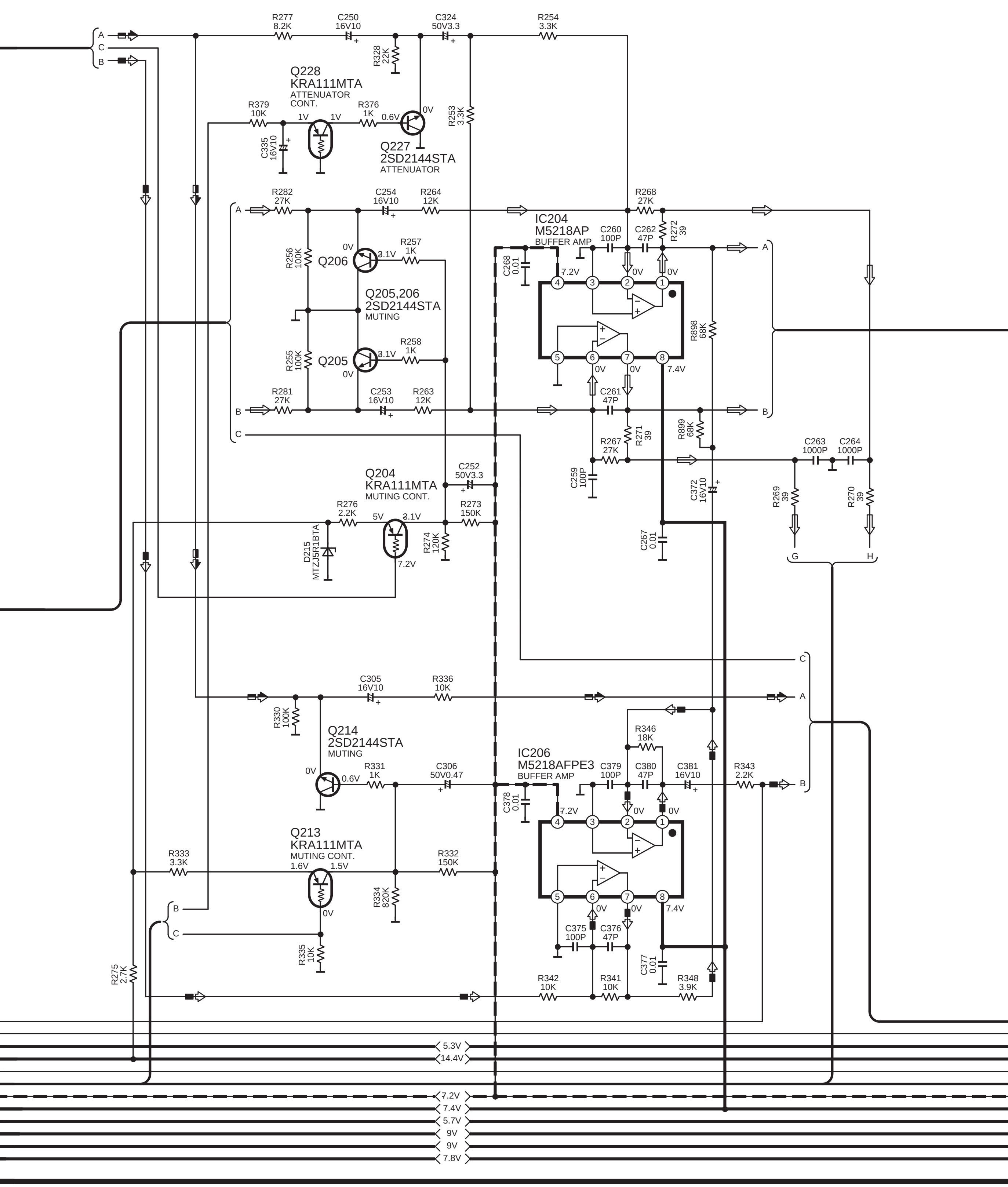
SCHEMATIC DIAGRAM - 53

: +B signal line
: -B signal line
: Center speaker signal line
: Subwoofer speaker signal line
: Audio signal line


IC208
M62444FPE1
SOUND CONTROLLER
(VOLUME CONT.)
CCH
SMCH
Lch
Rch
GND
DGND
GND2
GND3
DATA
LATCH
CLOCK
DVDD
AVDD
AVss
PORT1
PORT2
PORT3
OUT PUT PORT
R329 2.2K
C363 16V10
C364 50V2.2
C343 50V1
C344 50V1
R393 1K
C359 16V10
C355 220P
C347 16V10
R389 12K
R394 3.3K
C360 16V10
C356 220P
C348 16V10
R390 12K
C371 47P
C370 47P
R402 2.2K
R401 2.2K
R400 4.7K
R405 1.8K
R399 4.7K
R398 22K
C345 16V10
C346 16V10
C341 50V1
C342 50V1
C365 50V0.15
R385 3.9K
C353 100P
R387 12K
C361 50V3.3
C357 10V33
R391 1K
C255 0.022
R259 12K
C366 50V0.15
R386 3.9K
C354 100P
R388 12K
C362 50V3.3
C358 10V33
R392 1K
C256 0.022
R260 12K
C368 0.01
R403 390
C367 0.1
D216 MTZJ5R1BTA
C369 0.1
5V
R404 1.8
C329 6.3V100
R372 18
D213 MA700ATA
D214 MA700ATA
R371 10K
R373 220K
R374 100
Q225 KTC3199GRTA ATTENUATOR
C328 0.1
R375 56K
R368 820K
R365 56K
C333 6.3V220
Q226 KTC3199GRTA ATTENUATOR
R369 5.6K
R367 10K
Q223 KTC3199GRTA ATTENUATOR
C330 16V33
R377 10K
Q224 2SB621ARTA ATTENUATOR
R370 4.7K
K
R840 1K
R831 2.2K
R878 47K
Q809 2SD1020HTA ATTENUATOR
R839 1K
R832 1K
R877 47K
R817 100K
Q808 2SD1020HTA ATTENUATOR
OV
A
B
C
D
E
F
G
H
0V
7.3V
5V
7V
7.2V
5.3V
14.4V
7.2V
7.4V
5.7V
9V
9V
7.8V

SCHEMATIC DIAGRAM - 54

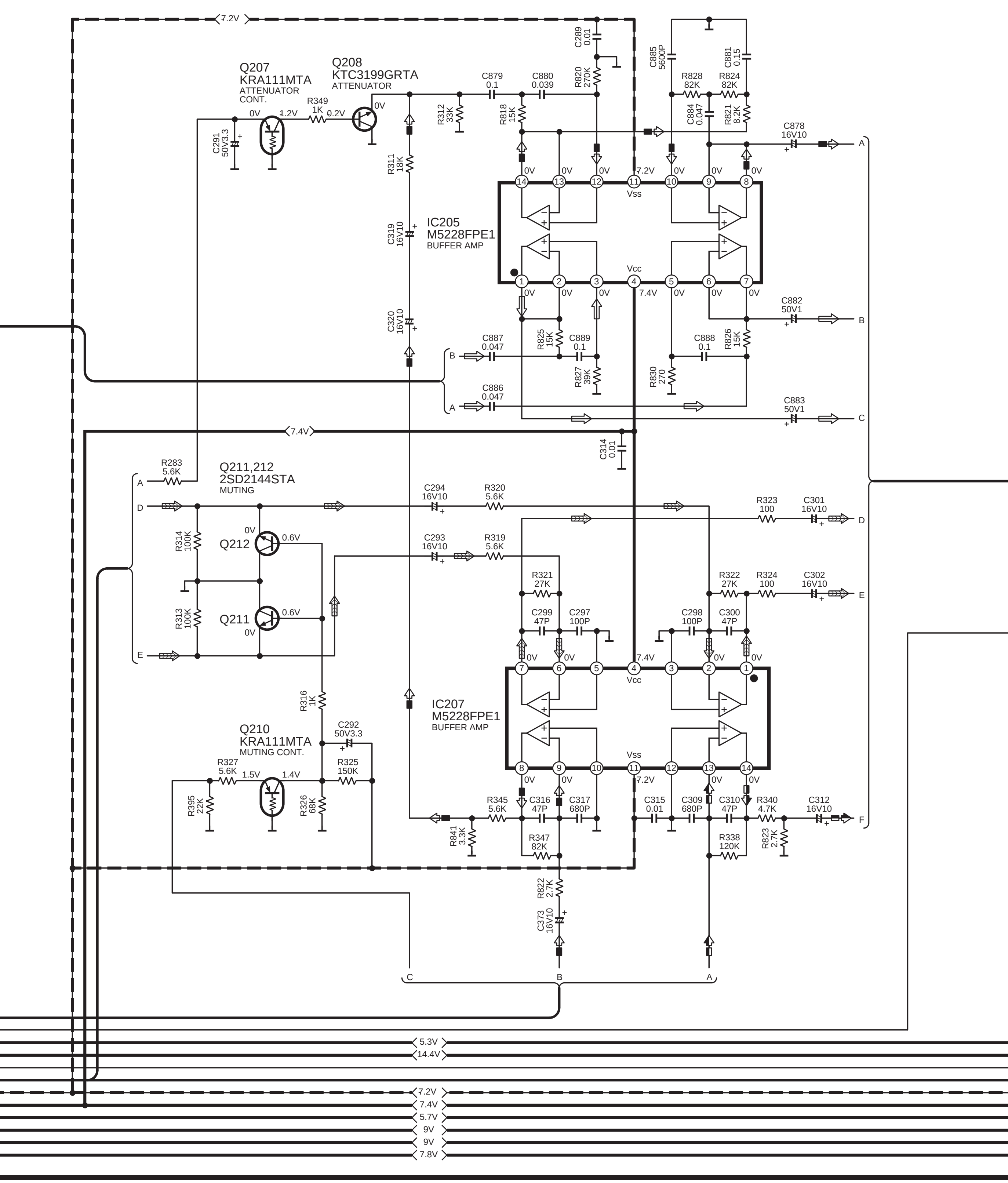
: +B signal line
: -B signal line
: Center speaker signal line
: Subwoofer speaker signal line
: Audio signal line


A
C
B
R277
8.2K
C250
16V10
C324
50V3.3
R254
3.3K
R328
22K
Q228
KRA111MTA
ATTENUATOR
CONT.
R379
10K
1V
1V
R376
1K
0.6V
0V
R253
3.3K
C335
16V10
Q227
2SD2144STA
ATTENUATOR
R282
27K
C254
16V10
R264
12K
R268
27K
IC204
M5218AP
BUFFER AMP
C260
100P
C262
47P
R272
39
0V
3.1V
R257
1K
R256
100K
Q206
C268
0.01
7.2V
0V
0V
Q205,206
2SD2144STA
MUTING
R898
68K
R255
100K
Q205
3.1V
R258
1K
0V
0V
0V
7.4V
R281
27K
C253
16V10
R263
12K
C261
47P
R899
68K
R271
39
R267
27K
C263
1000P
C264
1000P
C259
100P
Q204
KRA111MTA
MUTING CONT.
C252
50V3.3
C372
16V10
R276
2.2K
5V
3.1V
R273
150K
R269
39
R270
39
D215
MTZJ5R1BTA
R274
120K
7.2V
C267
0.01
G
H
C305
16V10
R336
10K
R330
100K
Q214
2SD2144STA
MUTING
R346
18K
IC206
M5218AFPE3
BUFFER AMP
0V
0.6V
R331
1K
C306
50V0.47
C379
100P
C380
47P
C381
16V10
R343
2.2K
C378
0.01
7.2V
0V
0V
Q213
KRA111MTA
MUTING CONT.
1.6V
1.5V
R333
3.3K
R332
150K
R334
820K
0V
0V
0V
7.4V
C375
100P
C376
47P
R335
10K
R275
2.7K
C377
0.01
R342
10K
R341
10K
R348
3.9K
5.3V
14.4V
7.2V
7.4V
5.7V
9V
9V
7.8V

SCHEMATIC DIAGRAM - 55

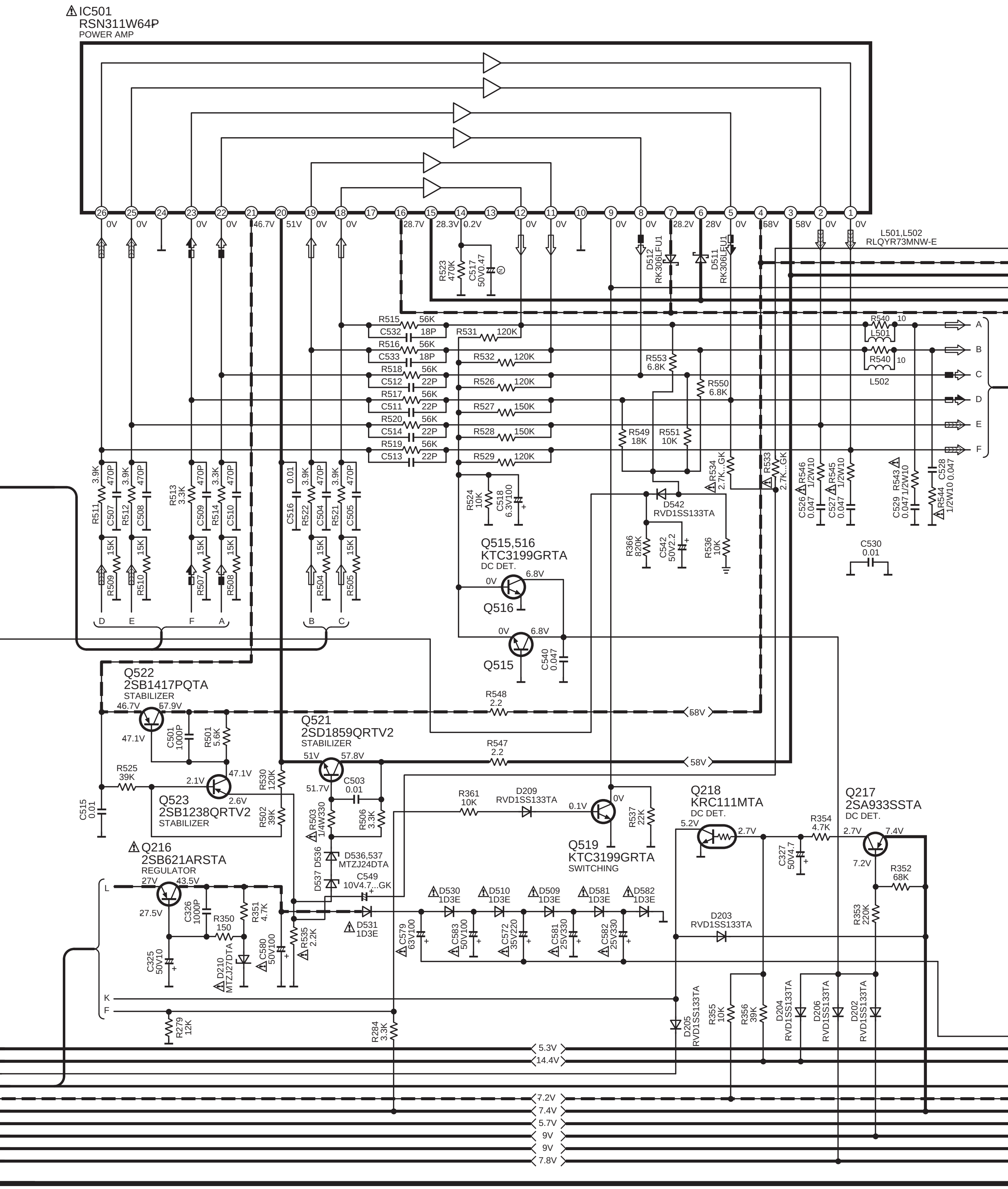
━━━ : +B signal line ⇨ : Audio signal line ■⇨ : Center speaker signal line

━ ━ ━ : -B signal line ⇨ : Surround speaker signal line ■⇨ : Subwoofer speaker signal line


7.2V
Q207
KRA111MTA
ATTENUATOR
CONT.
Q208
KTC3199GRTA
ATTENUATOR
C291
50V3.3
0V
1.2V
R349
1K
0.2V
0V
R311
18K
C319
16V10
C320
16V10
R312
33K
C879
0.1
C880
0.039
R818
15K
C289
0.01
R820
270K
C885
5600P
C881
0.15
R828
82K
R824
82K
C884
0.047
R821
8.2K
C878
16V10
A
IC205
M5228FPE1
BUFFER AMP
Vss
Vcc
7.4V
C882
50V1
B
C887
0.047
R825
15K
C889
0.1
R827
39K
C888
0.1
R826
15K
R830
270
C886
0.047
C883
50V1
C
7.4V
C314
0.01
R283
5.6K
Q211,212
2SD2144STA
MUTING
A
D
E
R314
100K
Q212
R313
100K
Q211
0.6V
C294
16V10
R320
5.6K
C293
16V10
R319
5.6K
R323
100
C301
16V10
R321
27K
R322
27K
R324
100
C302
16V10
C299
47P
C297
100P
C298
100P
C300
47P
IC207
M5228FPE1
BUFFER AMP
R316
1K
Q210
KRA111MTA
MUTING CONT.
C292
50V3.3
R327
5.6K
1.5V
1.4V
R325
150K
R395
22K
R326
68K
R345
5.6K
C316
47P
C317
680P
C315
0.01
C309
680P
C310
47P
R340
4.7K
C312
16V10
F
R841
3.3K
R347
82K
R338
120K
R823
2.7K
R822
2.7K
C373
16V10
C
B
A
5.3V
14.4V
7.2V
7.4V
5.7V
9V
9V
7.8V

SCHEMATIC DIAGRAM - 56

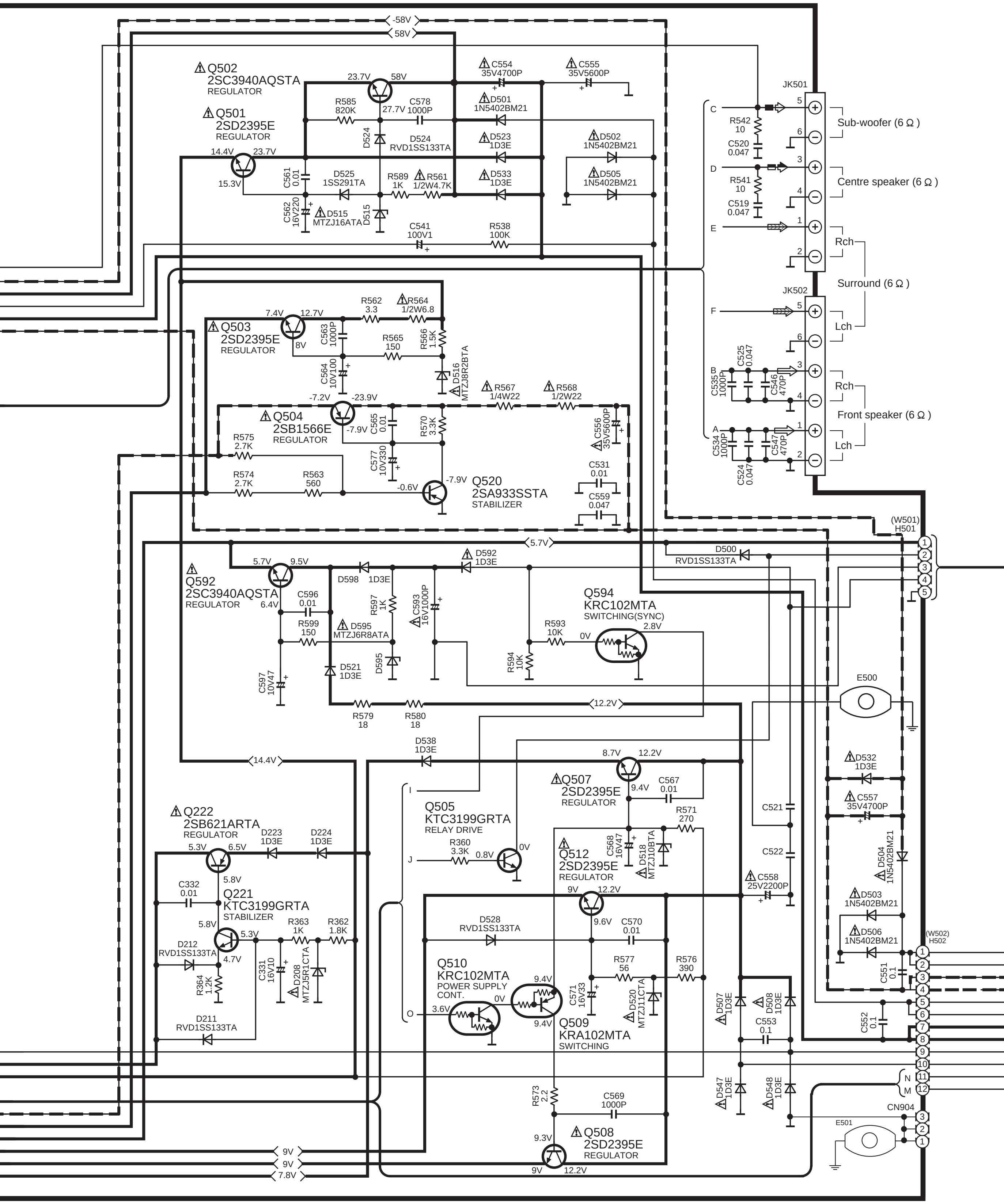
: +B signal line
: -B signal line
: Audio signal line
: Surround speaker signal line
: Center speaker signal line
: Subwoofer speaker signal line



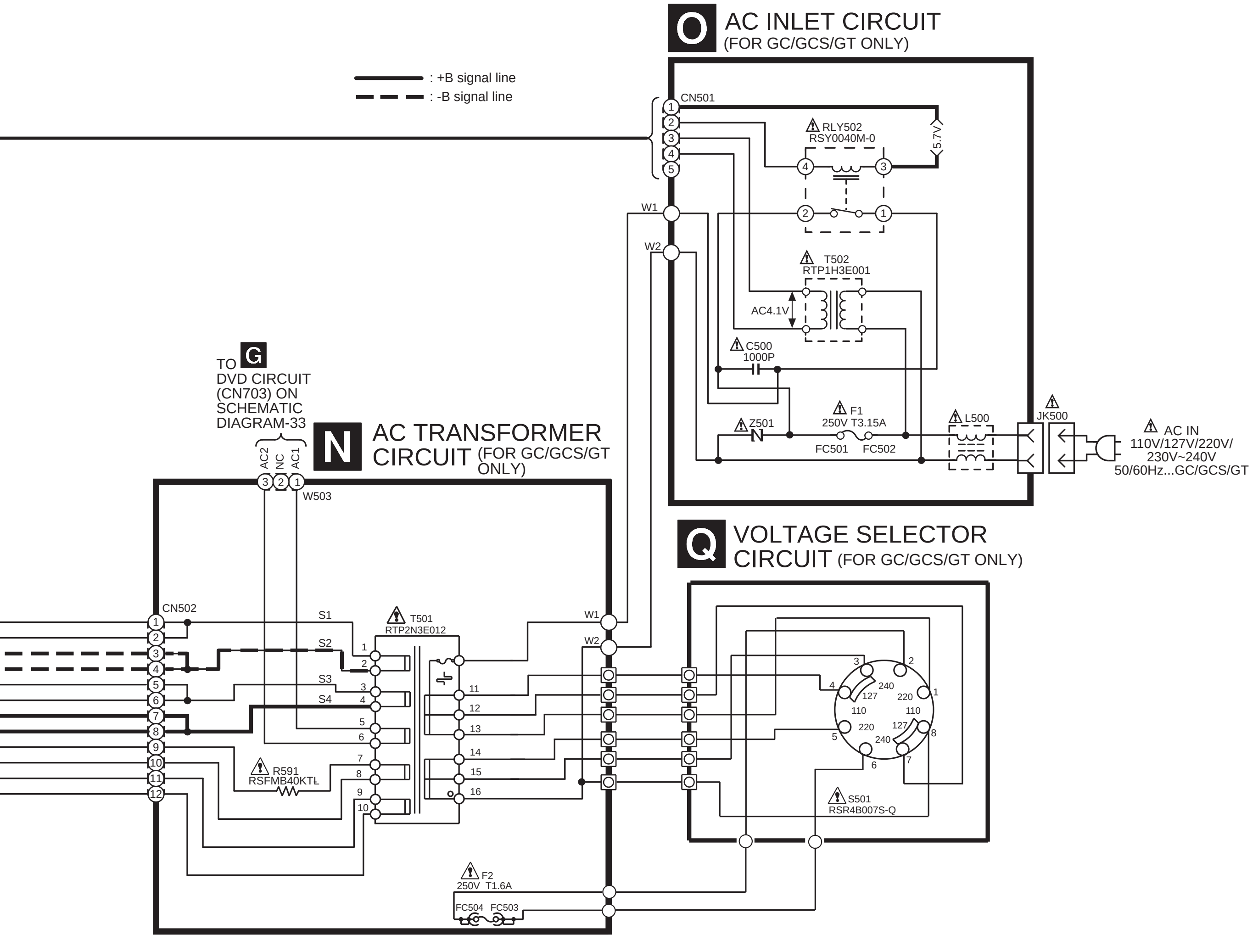
IC501
RSN311W64P
POWER AMP
26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
0V 0V 0V 0V 46.7V 51V 0V 0V 28.7V 28.3V 0.2V 0V 0V 0V 0V 0V 28.2V 28V 0V 58V 58V 0V 0V
L501,L502
RLQYR73MNW-E
R523 470K
C517 50V0.47
D512 RK306LFU1
D511 RK306LFU1
R515 56K
C532 18P
R531 120K
R516 56K
C533 18P
R532 120K
R518 56K
C512 22P
R526 120K
R517 56K
C511 22P
R527 150K
R520 56K
C514 22P
R528 150K
R519 56K
C513 22P
R529 120K
R553 6.8K
R550 6.8K
R549 18K
R551 10K
R534 2.7K...GK
R533 2.7K...GK
D542 RVD1SS133TA
R366 820K
C542 50V2.2
R536 10K
R540 10
L501
R540 10
L502
A B C D E F
R546 1/2W10
C526 0.047
R545 1/2W10
C527 0.047
R543 1/2W10
C529 0.047
R544 1/2W10
C528 0.047
C530 0.01
R511 3.9K
C507 470P
R512 3.9K
C508 470P
R513 3.3K
C509 470P
R514 3.3K
C510 470P
C516 0.01
R522 3.9K
C504 470P
R521 3.9K
C505 470P
R509 15K
R510 15K
R507 15K
R508 15K
R504 15K
R505 15K
D E F A
B C
R524 10K
C518 6.3V100
Q515,516
KTC3199GRTA
DC DET.
0V 6.8V
Q516
0V 6.8V
Q515
C540 0.047
Q522
2SB1417PQTA
STABILIZER
46.7V 57.9V
47.1V
C501 1000P
R501 5.6K
R548 2.2
58V
Q521
2SD1859QRTV2
STABILIZER
51V 57.8V
51.7V
R547 2.2
58V
R525 39K
2.1V 47.1V
2.6V
Q523
2SB1238QRTV2
STABILIZER
R530 120K
R502 39K
C515 0.01
C503 0.01
R503 1/4W330
R506 3.3K
D536,537
MTZJ24DTA
D537 D536
C549 10V4.7...GK
R361 10K
D209 RVD1SS133TA
0.1V 0V
Q519
KTC3199GRTA
SWITCHING
R537 22K
Q218
KRC111MTA
DC DET.
5.2V 2.7V
R354 4.7K
C327 50V4.7
Q217
2SA933SSTA
DC DET.
2.7V 7.4V
7.2V
R352 68K
R353 220K
D203 RVD1SS133TA
Q216
2SB621ARSTA
REGULATOR
27V 43.5V
27.5V
L
C326 1000P
R350 150
R351 4.7K
C325 50V10
D210 MTZJ27DTA
C580 50V100
R535 2.2K
D531 1D3E
D530 1D3E
D510 1D3E
D509 1D3E
D581 1D3E
D582 1D3E
C579 63V100
C583 50V100
C572 35V220
C581 25V330
C582 25V330
K
F
R279 12K
R284 3.3K
D205 RVD1SS133TA
R355 10K
R356 39K
D204 RVD1SS133TA
D206 RVD1SS133TA
D202 RVD1SS133TA
5.3V
14.4V
7.2V
7.4V
5.7V
9V
9V
7.8V

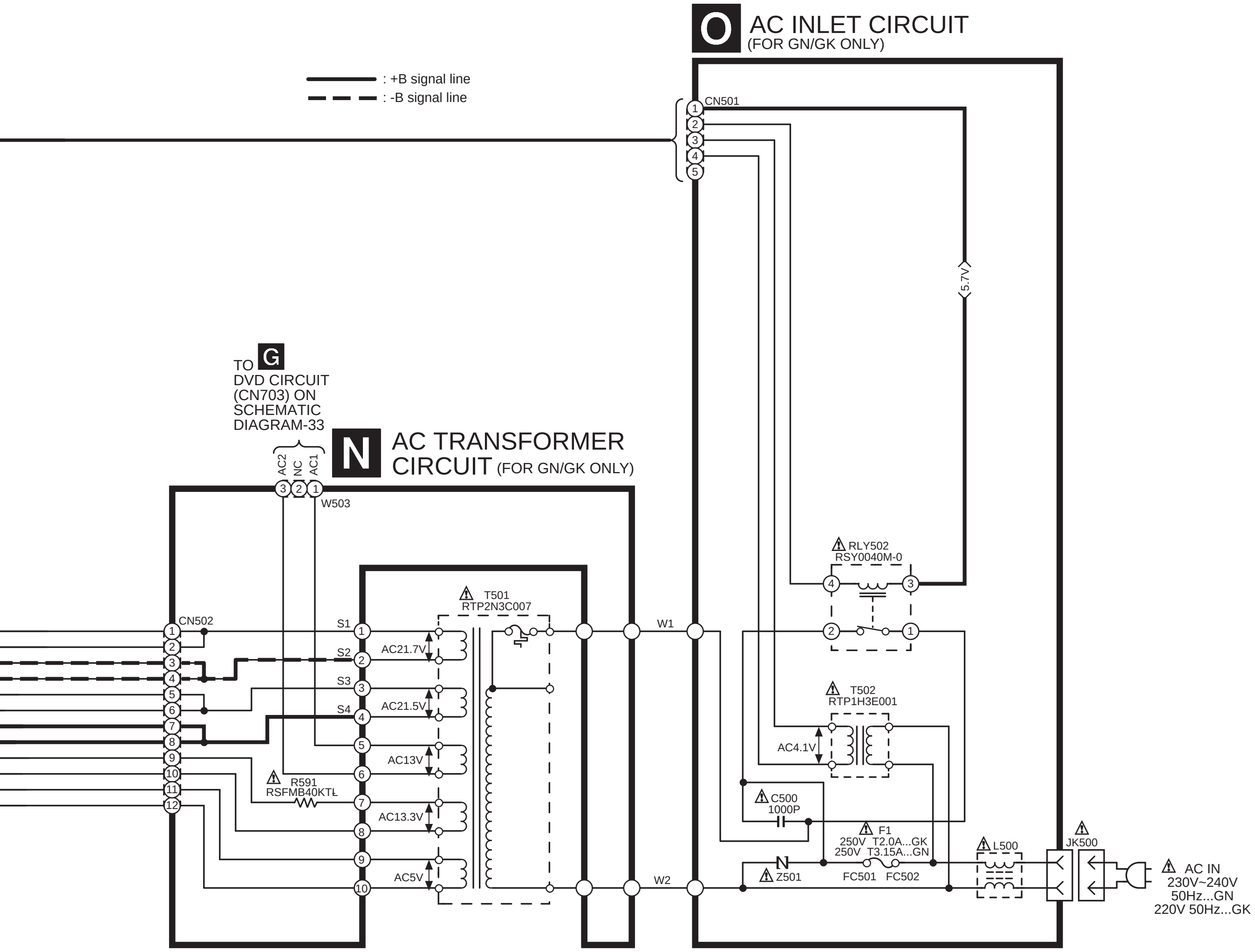
SCHEMATIC DIAGRAM - 57

: +B signal line
: -B signal line
: AM signal line
: FM signal line



-58V
58V
Q502
2SC3940AQSTA
REGULATOR
23.7V
58V
C554
35V4700P
C555
35V5600P
JK501
R585
820K
27.7V
C578
1000P
D501
1N5402BM21
Q501
2SD2395E
REGULATOR
D524
D524
RVD1SS133TA
D523
1D3E
D502
1N5402BM21
14.4V
23.7V
15.3V
C561
0.01
D525
1SS291TA
R589
1K
R561
1/2W4.7K
D533
1D3E
D505
1N5402BM21
C562
16V220
D515
MTZJ16ATA
D515
C541
100V1
R538
100K
C
R542
10
C520
0.047
5
6
Sub-woofer (6 Ω)
D
R541
10
C519
0.047
3
4
Centre speaker (6 Ω)
E
1
2
Rch
Surround (6 Ω)
JK502
F
5
Lch
6
R562
3.3
R564
1/2W6.8
7.4V
12.7V
Q503
2SD2395E
REGULATOR
8V
C563
1000P
R565
150
R566
1.5K
C564
10V100
D516
MTZJ8R2BTA
C525
0.047
B
C535
1000P
C546
470P
3
4
Rch
Front speaker (6 Ω)
A
C534
1000P
C547
470P
1
2
Lch
C524
0.047
R567
1/4W22
R568
1/2W22
-7.2V
-23.9V
Q504
2SB1566E
REGULATOR
-7.9V
C565
0.01
R570
3.3K
C556
35V5600P
R575
2.7K
C577
10V330
R574
2.7K
R563
560
-0.6V
-7.9V
Q520
2SA933SSTA
STABILIZER
C531
0.01
C559
0.047
(W501)
H501
5.7V
D592
1D3E
D500
RVD1SS133TA
5.7V
9.5V
Q592
2SC3940AQSTA
REGULATOR
6.4V
D598
1D3E
R597
1K
C593
16V1000P
C596
0.01
R599
150
D595
MTZJ6R8ATA
Q594
KRC102MTA
SWITCHING(SYNC)
2.8V
R593
10K
0V
R594
10K
D595
C597
10V47
D521
1D3E
E500
R579
18
R580
18
12.2V
D538
1D3E
14.4V
8.7V
12.2V
Q507
2SD2395E
REGULATOR
9.4V
C567
0.01
I
Q505
KTC3199GRTA
RELAY DRIVE
R571
270
C521
D532
1D3E
C557
35V4700P
Q222
2SB621ARTA
REGULATOR
D223
1D3E
D224
1D3E
5.3V
6.5V
R360
3.3K
0.8V
0V
J
C568
16V47
D518
MTZJ10BTA
Q512
2SD2395E
REGULATOR
C522
D504
1N5402BM21
5.8V
C332
0.01
Q221
KTC3199GRTA
STABILIZER
C558
25V2200P
9V
12.2V
D503
1N5402BM21
5.8V
5.3V
R363
1K
R362
1.8K
D528
RVD1SS133TA
9.6V
C570
0.01
D506
1N5402BM21
(W502)
H502
D212
RVD1SS133TA
4.7V
Q510
KRC102MTA
POWER SUPPLY
CONT.
R577
56
R576
390
C551
0.1
R364
1.2K
C331
16V10
D208
MTZJ5R1CTA
9.4V
0V
C571
16V33
D520
MTZJ11CTA
D507
1D3E
D508
1D3E
O
3.6V
9.4V
Q509
KRA102MTA
SWITCHING
C553
0.1
C552
0.1
D211
RVD1SS133TA
1
2
3
4
5
6
7
8
9
10
11
12
N
M
R573
2.2
C569
1000P
D547
1D3E
D548
1D3E
CN904
E501
3
2
1
Q508
2SD2395E
REGULATOR
9.3V
9V
9V
7.8V
9V
12.2V


: +B signal line
: -B signal line
O AC INLET CIRCUIT
(FOR GC/GCS/GT ONLY)
CN501
1
2
3
4
5
RLY502
RSY0040M-0
5.7V
4
3
2
1
W1
W2
T502
RTP1H3E001
AC4.1V
C500
1000P
F1
250V T3.15A
Z501
FC501
FC502
L500
JK500
AC IN
110V/127V/220V/
230V~240V
50/60Hz...GC/GCS/GT
TO G
DVD CIRCUIT
(CN703) ON
SCHEMATIC
DIAGRAM-33
AC2
NC
AC1
3
2
1
W503
N AC TRANSFORMER
CIRCUIT (FOR GC/GCS/GT ONLY)
CN502
S1
S2
S3
S4
T501
RTP2N3E012
W1
W2
11
12
13
14
15
16
R591
RSFMB40KTL
F2
250V T1.6A
FC504
FC503
Q VOLTAGE SELECTOR
CIRCUIT (FOR GC/GCS/GT ONLY)
S501
RSR4B007S-Q
240
127
220
110
110
220
127
240


O
AC INLET CIRCUIT
(FOR GN/GK ONLY)
: +B signal line
: -B signal line
CN501
1
2
3
4
5
5.7V
RLY502
RSY0040M-0
T502
RTP1H3E001
AC4.1V
C500
1000P
F1
250V T2.0A...GK
250V T3.15A...GN
Z501
FC501
FC502
L500
JK500
AC IN
230V~240V
50Hz...GN
220V 50Hz...GK
W1
W2
TO G
DVD CIRCUIT
(CN703) ON
SCHEMATIC
DIAGRAM-33
AC2
NC
AC1
W503
N
AC TRANSFORMER
CIRCUIT (FOR GN/GK ONLY)
CN502
1
2
3
4
5
6
7
8
9
10
11
12
S1
S2
S3
S4
T501
RTP2N3C007
AC21.7V
AC21.5V
AC13V
AC13.3V
AC5V
R591
RSFMB40KTL

ORDER NO. MD0104057S1
A6

Service Manual

DVD Home Theater Sound System

Supplement

SA-HT80

Colour
(S)... Silver Type
Area
(P)... U.S.A.
(PC)... Canada

Addition of DVD Parts Location and Parts List
Please file and use this supplement manual together with the service manual for Model No. SA-HT80, Order No.MD0002011C1.(P,PC)

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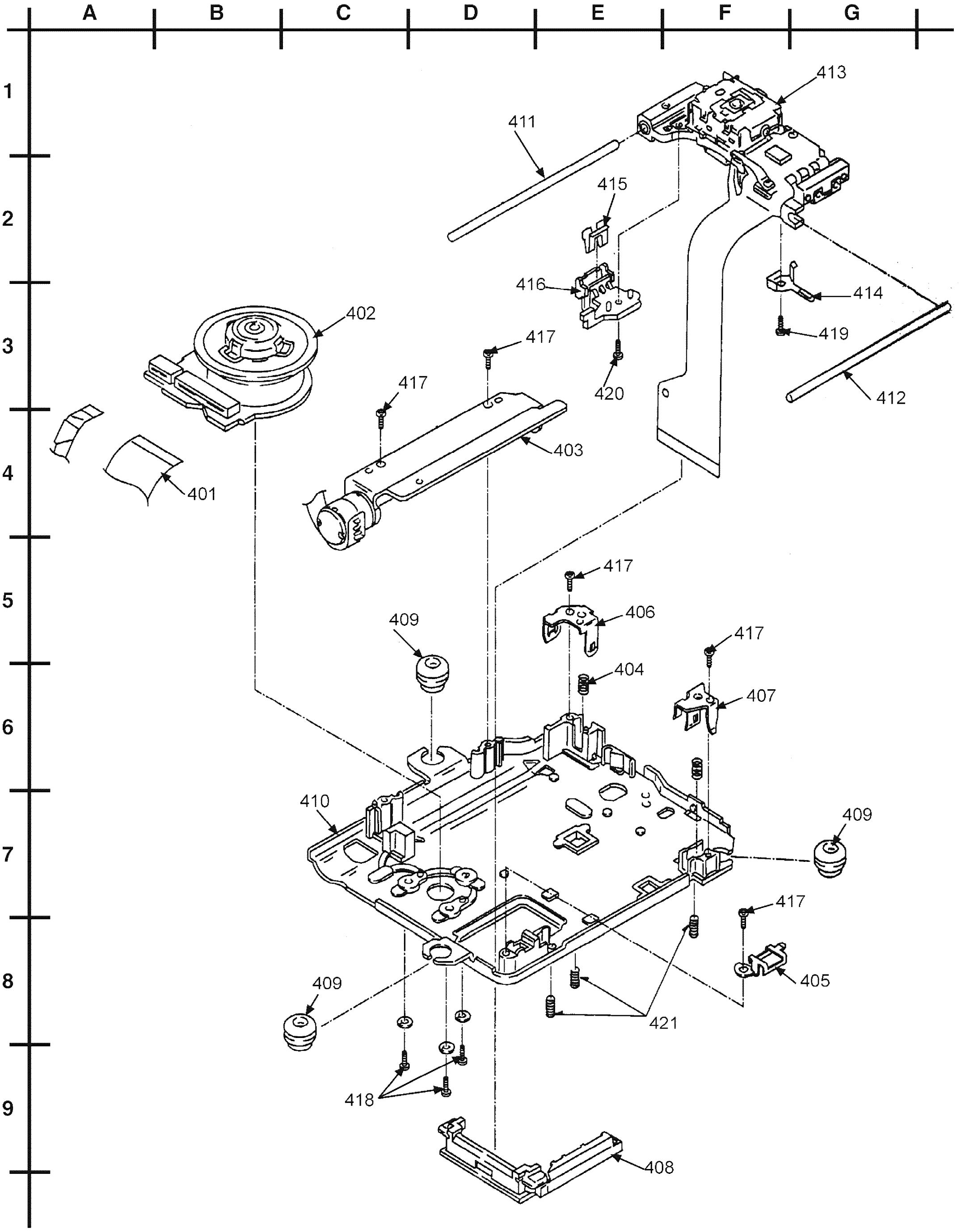
⚠ **WARNING**
This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

1. Traverse Parts Location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1.1. Traverse Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

  When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)

  Parts without these indications can be used for all areas.
- [SPC] indicated in the remarks column indicates source of supply.

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE	
401	VWJ1277	SPINDLE FFC	[SPC]
402	VEM0665	SPINDLE MOTOR	[SPC]
403	VEM0666	SPINDLE MOTOR	[SPC]
404	VMB3278	SPRING	[SPC]
405	VMC1487	SPRING	[SPC]
406	VMC1488	SPRING ORNAMENT	[SPC]
407	VMC1489	SPRING ORNAMENT	[SPC]
408	VMD3261	HOLDER	[SPC]
409	VMG1166	FLOATING RUBBER	[SPC]
410	VMK0474	TRAVERSE CHASSIS	[SPC]
411	VMS6471	SHAFT	[SPC]
412	VMS6472	SHAFT	[SPC]
413	VED0402	OPTICAL PICK-UP	[SPC]
414	VMC1491	SPRING	[SPC]
415	VMC1490	SPRING	[SPC]
416	VMD3260	NUT	[SPC]
417	VHD1224	SCREW	[SPC]
418	VHD1295	SCREW	[SPC]
419	VHD1057	SCREW	[SPC]
420	XQNQC17+3	SCREW	[SPC]
421	XXE26C6FN	SCREW	[SPC]

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